

Marcello Vichi (UCT, ZA)

00:00:00

Okay, so we will be recording the meeting we won't be making the detailed minutes, but there will be action so so the link will be available to everyone, please share it.

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widely and wildly because we want the whole community to be informed about where we are where we are at the stage it's been a long walk.

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And i'm very glad that you're all here with us today to hear the current the current status, but particularly to get engaged in the next steps.

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So I have been sharing it on the chat to the agenda, there are there aren't many messages, so you will quickly located, we will be starting with a an overview of salary by.

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tammy and myself, and then we'll go into the current status business plan and project priorities and a presentation of our brand new transformation action actions and Juliet what can we do it together with.

00:01:01

With me so these two will are organized as as webinars in such a way that they can be shared, later on, so we will be taking questions during them and in between them.

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But right after it will take five minutes coffee break and then went back will fire up on the on the question and answers and then move on into our preparatory phase, so the way we call this meeting is to get started with the preparation, the.

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The separate is going to be a reality sooner, but it's not officially started, so we can't take official actions at this moment this meeting is an informal meeting, so please feel free to express yourself as you as you prefer, and let us know any.

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Any information or comments you may have, then I think we can get started.

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If you don't mind then i'll be sharing my screen and tammy will take over.

00:02:01

just give me a second, let me.

user avatar

Tammy Morris (SAWS)

00:02:06

share the screen as an informal chat and with the whole work from home protocols, please excuse any dog barking that you may kill any.

00:02:17

Wild child antics as it is school holidays.

00:02:22

I hope for the best.

00:02:24

Okay, so we're going to present to you just how we came about with zachary the very long two years that it's taken to get to this point.

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And then just set the scene for for how we've gone forward so myself and my cello have were elected as the separate champions in.

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August 2019 now and, along with Juliet and your handlers and say on hursley to have been.

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finalizing the proposal and and putting together the business plan and fighting the good fight on behalf of the Community and so we're going to present to you now where we are so next next slide please.

00:03:12

And so we've moved from summer through Sappho to the Secretary, and so this is a picture of the setup.

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symposium from 2018 in her minus and the South African marine and Antarctic research facility was initially proposed in the serie documents in 2016.

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At the same time that's smack Curry and others were proposed and it's been a long process we've done some.

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extensive consultations with the extended Community one on one meetings, many of you will remember, we either.

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managed to come see or we had these through virtual meetings and we looked at a bottom up and top down approach with the ftp and the other main governments or department for Antarctic operations.

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which has resulted in a proposed def of the dsi advisory committees are the best way forward says together.

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And we've had recognition of international relevance through letters of support from maine international stakeholders.

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In the Antarctic and marine space, and so the submission to the surgery paddle took place in March and we presented separate to them.

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And it was accepted with some changes that needed to be made and was proposal funding to the dsi We then wrote the business plan.

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And it was submitted and has since been approved by the DSS that's where we are at the moment, so just a reminder of the South African presence in the polar region, so we have a base on Antarctica us and I fall, but also we have southern Titanic islands, we have.

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observations take place Marion island and golf island and we have extensive of observations that go through the Southern Ocean see here we've.

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we've shown in one schematic everything that we as a Community, are trying to do with our transaction monitoring lines.

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In within South Africa is easy, but also extending out into the Southern Ocean, the South Atlantic at the south Indian Ocean.

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And the glider sites that have been targeted the research basis which i've just mentioned the marines that we are.

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currently have in place or lucky to have in place at some stage soon, but also the CIS extends and it were that easy is.

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And so we increase government funded infrastructure, we have the capability across the disciplines to support scientific programs, but you do those that have already got long term observations in place we don't want to lose anything in the process next slide please.

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So the separate objectives, just to go back through them again to refresh everybody is to look at large facilities such as ships and basis to medium facilities.

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such as land based liberties, but also ship based containers and supply vehicles things like ass right down to individual field here so we're looking to enable a balanced research birth was.

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And by expanding long will cast long term observational data sets and but also looking to invest in infrastructure and to exploit and current.

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Infrastructure that's that's really existing and to build upon this and to build up into it through several investment cycles and to ensure that we have.

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A good forward momentum in terms of our science our long term observations we also want to transfer transform the way we access and the perception of South African polar research and.

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And the regions equal to work, but to make it available to technicians engineers science of scientists have various disciplines.

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learners and students governments, private businesses, civil society, tourism, as many stakeholders as we can reach within sappy.

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And it will also directly benefit the governmental strategies of the antibiotic and seven Arctic islands and number of which you are all involved with, and so we won't.

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bring them out into all the way to expand them further the stage next slide please.

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So, the one thing that has been established survive the Antarctic and southerners strategy, this is.

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The establishment of the separate speaks to this national strategic objective.

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Which is delineated in the room, it research it, which is the MARS proposal which dsi put forward in the 20 2016 White Paper and then toxic and seven ocean strategy, which is the a sauce and was.

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gazetted this year and through the dmv so sappy will become the enabler of these two strategies and so, for both departments, and in order to change.

00:08:06

In line departments and to take charge of the anti tech and Southern Ocean work that is being done to make sure that these are enabled and implemented properly watch Hello.

user avatar

Marcello Vichi (UCT, ZA)

00:08:20

Thank you Tommy.

00:08:23

We are all aware of the SAP and it is we, we are aware of some of the limitation of signup and particularly in.

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In our own direct experience as stakeholders working in the same system, we realize the complexity of the various of the various partners so we got some two main.

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players, as previously indicated by tammy the two line departments that are responsible of business in Antarctica and in the southern.

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Southern tactic islands, so this happened since 2003 so the apathy oversees the signup logistics and dsi the stand up science and it is composed of many different places a caller's with a series of news relationship so this has been.

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expanded in our proposal when preparing the proposal during the consultations, it has been realized the fragility of this organization, and this is where SAP is actually coming in.

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We understand the presence of unnecessary institutional separation that are creating gaps and barriers between the observations that the.

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The the implementation of new research activities that haven't been done in the past and we got a fragmented distribution of logistical support among the various players.

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If the relationship between the main stakeholders breaks down then here we're talking about the use of large infrastructures and the availability of funding for science and for the end for.

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The exploitation of this larger scale investment done by the government, but then the entire system is going to be heavily compromised and the consequences are not just the.

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Small side so or people not talking to each other, but actually going to have.

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repercussions and reverberations on the entire scientific production and international visibility of the only African country in the Antarctic Treaty, so we have a moral obligation to do things right and.

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it's very important that the assignment Efe the management teams, they have clearly own knowledge risk and actively working towards a healthy and productive relationship.

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But in terms of what we can do for the San up science components, we need to remind ourselves how the sound of silence is rososv so we got to.

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The South call that is a three year cycle share the maintenance of long term observation with new science proposal without any clear differentiation between the two.

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The integration with infrastructure availability is considered to be suboptimal and does not fully highlight the relevance of this national investment in particular.

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The NF science reporting does not include the use of large pool of infrastructure so when you are requesting it in your proposal, this is not clearly identified and other.

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Item in this funding is related to ship time there's a contribution of wealth 60 days of ship time on the dollars to this contribution supported unique opportunities for Paula cruises in the winter Southern Ocean.

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into the CIS and other types of activities and we've got an additional component, as some of this ship time is used for sustaining a very successful training program semester programs funded on a three year cycle.

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And it says 2016 and contributed to to training and the approaching are polar into marine sciences have many students from other universities.

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And we got an additional role played by our Antarctic legacy of South Africa that is also funded on a three year cycle.

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So this project forces both entirety humanities it develops and administer the sound science websites and runs all the outreach components that are essential for.

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For the function so we're going to lose all of this, if there's no consistent there's no condemnation plan So these are the proposed changes that we would like to have to reorganize as those separate line items and integrate them.

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Using a model that has currently being employed within MRF by saya but the African silicon does ecosystem program where you go out to spread a variety of infrastructure that are all connected through joined coordination of the program and that's why we would like to during the.

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implementation phase.

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Of Center of saffery to ensure that there's a possibility of transferring ship time to suffering force of Boston supporting both Semester and dedicated scientific expeditions.

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To have the cart because mine teamed in the same independent way for scientific scrutiny, but once the scientific recommendation is done.

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And the funding has been ensure that there is a management, a high level management and coordination that takes into account of the scientific needs, as well as the availability and the logistics.

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That is necessary for maintaining our presence in Antarctica we want to maximize the investment we have done and, particularly, we want to make sure that also continues and becomes an operational component of the software.

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So this takes us to the various integrated facilities that have been proposed in our document.

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Somebody is designed as a joiner and honestly really a broker between the value science components and require just there are different integrated facilities distributed differently in various.

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components in various partners of the software consortium and they're bringing together various types of institution and research teams.

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We will now be going through some of them, the long term observations of the ocean and long term observations in land the polar lab.

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The outreach training and society and data communication that goes under one research facilities integrated facilities, called the data product and societal benefits and the coordination and logistics help.

00:14:31

me.

user avatar

Tammy Morris (SAWS)

00:14:32

To say in terms of long term observations and.

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This the long term oceans land and oceans and land are designed to maintain and consolidate the existing multi partner observational networks.

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currently funded through short term science funded funding cycles, as well as develop new ones into the future and they combine autonomous.

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observations with human capacity, because, as we know nothing is truly autonomous and so what we can see on this slide is just a number of networks and ideas that have already been put forward by the Community.

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And so, what are we looking at here is a number of people, a number of groups have come forward and said, we want to be a part of this, we we really doing observations, is what we want to do into the future.

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And so we looked at, we looked at all of these when we develop the proposal and we're also looking at a number of priority projects and one of these is to procure and install equipment.

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And during their so that as a segue to dried up period which is coming up pretty shortly, and we will discuss a little bit further, later on, but it's also to ensure that the vessel is fit for everybody's purpose so whether that those instruments are going in during the dry dock or.

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In between wishes alongside is part of the issue to be discussed further.

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soccer infrastructure which will be integrated within sappy and and to make sure that that these this fleet is built up on and made available, but also to set up a novel see flaw Observatory hosted at sign up and, and so what we can see, as also the.

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staff.

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Staff compliment that we put forward in the proposal, those blocks that are highlighted in green or.

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per SEC will only be funded in phase two, so the next funding cycle, the next three years, so in this first three years and.

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We will be able to find the general instrument technician and the seagoing instrument technician that the autonomous platform technician sitting under soccer funding that has been put forward, for the first year at least next slide please.

00:16:47

So the same again for all to land, and this is linked primarily to the seventh Arctic islands, but also to the work that needs to take place in Antarctica next slide please.

00:17:01

And here again we have a number of priority projects that we need to look at three separately, which is the integration of marine mammals bird and space observation networks.

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Identification and eventual hand over existing terrestrial equipments acquired through sign up science funding and so so build up a lot of that.

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That historical work that's been done, traditionally, particularly in Antarctica and ensure that it gets going again but also collaboration with.

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smack review for the Prince Edward island Sentinel sites and to ensure that a lot of the work that happens within within the research infrastructures is working together instead of recreating the wheel, again, I just want to point out the two.

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posts that have will only be funded in the second phase, within the space, we will have a general instrument technician and the for overwintering Marian TEAM members for large mammals, which will actually only start in the in the next year next slide please.

user avatar

Marcello Vichi (UCT, ZA)

00:18:04

Yes, we.

00:18:05

will go to one of the the integrated facilities that is a Novo introduction.

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We know well that experiencing and working in extremely cold conditions is one major limitation for the training and the development of Paula sciences in Africa.

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So what you see here are some of the activities that we started doing in the few years so and you can understand that all these people have been exposed.

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To those conditions that they've never seen it before like the student you see they're holding a nice quarter he actually he doesn't really know that he has been.

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it's been having frostbite because he never experienced that so the establishment of a polar bear actually in the very first one on the African continent would.

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be a game changer in the whole thing, so this will be the first facility of this kind.

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That will allow scientists and students from various disciplines to produce science and get training on the southern toxic environment and the entire environment before.

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Even instead of going in the field, the facility will be a training incubator and before before because we wanted to do that, we started engaging with a large number of universities, some of them.

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have never been involved in Santa activities before, and this is pretty important because we know that their knowledge and expertise.

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would complement the current work that people have been doing over the past years of existence of Santa so the polar lab.

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will be located in Cape Town it's a building a completely new building that needs to be close to the ship infrastructure, as well as being close to the forestry, fisheries and environment, the oceans and coast.

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branch that manages the logistics, so your city has offered land on campus and you see here in this in this figures you see the.

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expected location that plan location, which will be close to the Medina circle back so the the building, you see here is the new engineering building, and this is the plot that will be.

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considered and we reorganized for this, so you city joined it to another project that have.

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Which is a digital lab so it's going to be a digital important lab seed funding and be made available and the project implementation committee is starting.

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So people will be co-opted and requested to be part of this, to make sure that we are catering for all the Nice and.

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Making sure that you're the sack the science, we want is being done so, South Africa universities or together, thanks to that support them, we requested during this winter have ring fenced in additional amount of funding from the D hat.

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Through the next infrastructure funding cycle that will start in three years from now, so perfectly aligned with our face to.

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The number of people that have been involved again, are they all start as all the other coordinating officer they'll start in phase two, but we need a project manager to get things going and the building prepared.

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and other main important to another important point is that the value of science generated by the Sabri depends entirely on seamless integration of data flow.

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Collection transmission curation high level production synthesis dissemination and so on, so we do recognize that ball and legacy and potentials of South Africa and Africa in general in terms of outreach awareness dissemination human aspects and training.

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Because we are building a radio and successful initiative that that'd be put together by outside and semester, so the integration of all this is.

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lacking is not existing at the moment, and this is where software is coming in with the infrastructural with a with a integrated facility on data.

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products and societal benefits this facility was also developed but new real time communication technologies for digital tweens and will generate products for downstream us.

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So the way it will be organized it's a distributed locations teams, working with the DPS of will mostly be located at the same data Center it was a node in Cape Town.

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As well as the Antarctic legacy of South African Stellenbosch but because of the presence of the digital and Paula lab, but we also think that the digital lab would play a rather relevant.

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component in terms of three dimensional virtual environment visualization therefore outreach and engagement and the number of personnel, that will be involved in Phase one are.

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Half of the system administrator that we require over the entire life of the project, half of the data curators and half of system developers.

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But in the second phase, we will also add data scientist and technical officer and outreach just to remind that that we think outreach should start from the beginning, but it has always been going on.

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Because of the presence of our side, so i'll say it's funded for two additional years through this current cycle, at the end of this one, the integration is hopefully going to be completely completed.

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The final most important component we're going to spend quite some time on that that will be related to the.

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distribution of those infrastructure, so this is a breakdown of the initial big box.

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Of connected components, and this is how they will be structured and later on today we'll be talking a bit more about how its distribution in terms of stakeholders participations.

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And organizations, I would like to spend some more time on explaining the coordination and logistics.

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It will be located in the premises of the magazine, you know the sale in Cape Town close to give free management very close because it's the same building.

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We will have his priority project, the establishment of the various consortium and service level agreements, but in order to build that we do need to have in place the governance.

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And to start the integration of the NF Center components that we spoke about earlier, so the funding figures, the funding posts are the supply manager and the logistics coordinating officer in.

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In realization of the extreme importance of coordination being done, and of course the project manager will be for the for the polar lab will also be included, but that's a.

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That has been mentioned before, all of this together will constitute to the management team that you can find it a detailed descriptions in the in the proposal.

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let's spend a few words on the advisory structures that we will go through them later on.

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But just to remind that the advisory panel is composed of a soft and social power partner representative so government departments are free manager, then we will have the Santa coordination Center logistics.

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The suffering management team, a representative from come up a PR and all the technical numb members that currently constituted.

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The constellation of people involved in Santa this will be the space where coordination and management of scientific projects that will be.

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will be analyzed and make sure that what has been written by scientism the proposal can actually be executed.

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But where is the science coming through through scientists in a scientific panel, where we will have scientists have international standing international expert sculpted and.

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Particularly important the somatic user, for that will include all the integrated facilities, the terrestrial the ocean price via social space and atmospheric scientists and additional users.

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This is our proposed budget that we put we submitted to the sorry panel it's about 1 billion, but that's what we proposed and.

00:26:04

The slides illustrate the budget breakdown for capital and running costs.

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Even that these are it builds on existing infrastructures, we have a more costs put in the running component, rather than in capital costs capital costs are for maintenance of existing components, as well as the acquisition of new parts, we are.

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expecting a clear growth over the year, what is important is that, of course, this is not what has been funded for the implementation phase, which is phase one.

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This is over 15 year periods, but I think it's very important that the entire Community recognizes that the the government of department have understood the importance of this of cooler sciences and it made it.

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made a commitment to maintain this long term funding, so we very much hope.

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That the suffering will become a reality, quite soon, and given the fact that we have received already quite a lot of them require signatures, we are pretty much in the in place, I think this is all for the first part, we would like to move to the to the second.

00:27:18

To the second part of the webinar Juliet are you ready to start sharing your screen We will take questions, right after this we'll have a break and then just a five minute break right after Juliet and then come back for questions.

user avatar

Juliet Hermes SAEON South Africa

00:27:34

Great thanks my children and so i'm going to talk as much as I said, i'm gonna talk a little bit more about this and business plan and the implementation, implementation and the next steps and.

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So here we've got basically some of the next steps that we can do still in this phase before all the paperwork is finalized, so one of the first things is updating the Community.

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doing today and getting that valuable feedback into the plans, then the next is really that final signing of the contract between the North and dsi and.

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we're excited to say that yesterday we got that contract signed from the dsi and so now it's going to the NRA legal and we suspect, by the end of October at the latest, that should all be finalized.

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And after that we can then actually enter into the implementation phase, and so what's going to have to happen is an appointment of an interim salary manager due to the timing, it will take for the HR to.

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advertise we really want to get process running so that will happen immediately as soon as everything's been signed.

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We want to address the points that are raised by the Community in this meeting, and in all the future ongoing meetings and really continue that stakeholder engagement.

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And we want to begin the process of setting up the various panels and commitments that Marcelo has mentioned and I'll discuss again now, and we also one of the first the immediate priorities is really beginning the transformation plan.

00:29:04

So, so we really spend a lot of time thinking around what a transformed sappy would look like and by this we mean sort of a fundamental system wide reorganization.

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Across technological, economic and social factors, including paradigms goals and values so really taking everything into account, and you can see.

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What we would envisage saffery in three years time and then again in five to eight years time, the important thing is to really look at.

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Look at the long term vision and sort of evolving kpis around transformation so in order to achieve this, we spent a lot of time discussing with the Community looking at successes and failures of other programs and seeing the various different tape sort of ways that we could.

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REACH effective transformation and so some of the steps we just want to highlight today.

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So one of the key things is collaboration we really need that sign up P eyes get involved with, for example, the Association of polar early career scientists.

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That they act as mentors that you use a peck to link students already graduated into internships and discuss opportunities with the Department of Education and.

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Academy of science of South Africa, so really you know, working with real on on really growing that side of things, and then visiting those he is that.

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haven't previously been involved with Santa talking to the HR DS and the deans of science and research offices to discuss his lack of involvement to date.

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And how we can co develop a solution to encourage such he is to be more involved and then also at a different level to discuss with the lectures and see how to support their involvement.

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Maybe with co supervision and seed funding, and these are things that can be actioned immediately they're sort of they don't have any direct costs.

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And since it's going to be a few years until the next senate call comes through will hopefully have more diverse institute's putting in proposals.

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And so we'd also like to look at coordinating workshops to support proposal writing for Santa and maybe put together a package.

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For established scientists to aren't involved in the research highlighting how they can become involved and also provide mentorship for emerging P is you want to become involved and look at it, increasing the attendance to the signup symposium and.

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The other step is looking at society, so how we can adapt the science in context the grades 11 to 12 so really show the variety of different careers and polar science.

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Looking at your doctors through two chefs to department of public works, as well as the scientists.

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Creating short clips with these people talking about their work and roll this out so sign as most of you know, have a has a very well established school science engagement.

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program so roll out with those those school clusters and get more people involved in the Antarctic youth coalition and really bring to the attention of South Africans sappy and the work that's being done also.

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You know, building again on what we have been doing running social media campaigns and profiling on essays sabc.

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and introducing the concept of polar science and even climate science into the curriculum for people studying.

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You know, not just for students coming through the curriculum, but for those people who are studying education so liaising with the D and really introducing it to teachers as they're.

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Learning and studying education and also you know, in the longer time looking at tours across the country highlighting polar sciences.

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And really create recreating the feeling of being in Antarctica so you've got the polar lap but trying to create that on a on a on a road tour and to reach all different areas of the country.

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Looking at students so enhancing science context and rolling it out to first year undergrads.

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from across the country initiating polar Open Days at universities and targeting targeting honors levels and maybe considering with the success of semester, whether we can introduce an ice semester or also include a more dedicated polar component component to semester.

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And then, in terms of the factory team what what's going to be done there is really co developing and approach with the previous disadvantaged universities looking.

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To work in collaboration with people like cyber and Paul, he said, to see how we can learn from them and how we can partner with them.

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And then identify keen researchers from previously disadvantaged higher education institutes, who are new to polar science.

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And look at possible startup grants that can be used and build up forms of co supervision.

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And really also within salary and making sure that there are there's transformation in the recruitment and following the strict on our policies, but also looking to the long term, of career paths and developing stuff already.

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and the last thing which we want to initiate a straightaway is really a transformation audit so in order to track or monitor the process of transformation within posts axes and to provide quick critical input for reflection we want to look at.

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A specialized organization development, so an evaluator who who would.

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separately observe as assess and provide feedback on the impacts of the transmission processes that are being facilitated and this this Group would also be expected to provide detailed documentation for.

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Looking at observations which could be valuable, not only for future activities of separate but also for other institute's with similar challenges so and initially they'll also be expected to delete discussions.

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To understand the blockages that have prevented transformation within polar sciences.

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So, in summary, what we want to do with immediate effect is, and it has been approved by the dsi so this doesn't necessarily have to go through any further endorsement.

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is really looking at a professional development accelerator program so getting 46 black PDP postdoc instrument scientists up and running in the first year.

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And, and then working around that then looking at a transformation into a program.

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So, looking at established black researchers who may have missed or been some under supported during the Senate call and really build them in and build research infrastructure based programs around them and get them to start mentoring students.

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And if needed pair them up with more established saying that researchers.

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And then, this last one is the consult consultancy on transformation which I spoke about so looking at what is causing the blockages and holding black back transformation and polo research.

00:35:59

And hosting diversity, workshops and for all of this it's really important that we have Community involvement, we need Community to to host the PDP scientists to work at the mentorship program and to actively engage in the consultancy work to understand what the blockages are.

00:36:22

So that's kind of a bit of an idea as to the transformation that we want an approach, we want to take, but there are some other steps that we want to work towards while we're sort of waiting for the funding to come through.

00:36:34

And so we want to start looking at setting up a dfs up separate asking for the Dallas to refurbishments this is likely going to have to be after 2021 because of the timing of the driver.

00:36:47

so soon the tammy we'll talk a little bit more about that and we're going to start with the advertisement for the separate manager the logistics coordinator and the polar lab manager.

00:36:58

But this process, the job descriptions will need to be endorsed by the separate advisory panel which i'll highlight after this slide and.

00:37:10

Really, we want to get and then the Advisory Council involved in the interview process as well, we can begin to draft the mo a's.

00:37:20

and which, with the different is and the different institute's but, again with the mo as they're going to need to be endorsed by the.

00:37:27

advisory panel the transformation audit can take place that's an immediate action that can happen and the advertisement of the PDP because that's already been approved by the dsi.

00:37:39

We can start undertaking various collaborative negotiations with all the stakeholders and look at setting up.

00:37:45

Levels service level agreements and memorandums.

00:37:48

of understanding and also prepared a timeline for discussion with all the integrated facilities, looking at the dry dock cruises and the recruitment and then.

00:37:59

A key urgent matter now is revising and submitting the procurement plan, which will then go to the separate advisory panel for endorsement and begin the supply chain management, because ultimately.

00:38:13

No one within separate can just go and choose to buy different equipment, everything is going to have to go through the advisory panel and i'll.

00:38:20

martello highlighted that structure, and I will go back to it but possible i'm going to hand it over to tammy who's just going to talk a little bit about the.

00:38:30

Finances tammy.

user avatar

Tammy Morris (SAWS)

00:38:33

Thank you, and so we showed you this.

00:38:36

Beautiful budget or 15 years whatever 1.1 billion Rand and and it was grand and exotic and and we had everybody's ideals as cope incorporated as best as possible within the proposal.

00:38:53

But once we had gone through the series panel and it had gone through back to the dsi and approved for funding.

00:39:00

The dsi came back and said look given everything that country has gone through in the last two years given.

00:39:08

The way the Treasury has had three allocate funding, we can only give you 25 million per year for the first three years of the first phase of the implementation plan so.

00:39:20

We had to take that back to what we had put forward a kind of been remember what we put forward for the first three years and we look at the.

00:39:31

finances and the equipment as best as possible and try to fit this and that's why, when we showed you the structure of the staffing some of those posts cannot be fooled straight away and we've looked at those posts that are most essential, and at this stage next slide please.

00:39:51

So this is the fun slide the one that everybody's been waiting for, and so what we can say is this.

00:39:59

The dry dock for the essay gallus to is supposed to be taking place now in November end of October November when the ship comes back from golf island cruise.

00:40:10

Again that's a very short period of time, even though we had presented to this very panel in March, there was a lot of backwards and forwards negotiations that had to be done.

00:40:21

And the business plan that had to be established, we have to relook at all of the procurement plan and we will never going to get the SEM processes in place in time for the dry dock.

00:40:29

However, the only piece of equipment that at this stage that is needed for a dry dock is multi billionaire Cassandra which and people type in the chat.

00:40:39

And what we've done is actually placed this procurement of this item into the year to what happens with the sake of others to to bestbuy knowledge at the stage is that there will be a.

00:40:52

The dreadlocks happen every five years and 45 years and there is a sort of like mini dry dock, as it were, and.

00:41:01

halfway between this so if the dry dock happens now, we should be looking at in two years time, being able to baby install the Multi beam ECHO Sander so we've put it into the procurement of year to because it's a quite a large piece of equipment, as you can all appreciate.

00:41:18

Government pma processes that is going to be a very difficult tended to write and have secured and have paid so we've got time then to get it and.

00:41:30

secured and into the country in time for that money dried up the recipe equipments and can, in theory, be installed as the vessel is alongside when in between cruisers.

00:41:43

And, given the very difficulty we all have at the moment, trying to get on board the ship to look after our equipment.

00:41:51

With the covert protocols, but we're all hoping for for for progress on this and that we can eventually go back to some sort of normal, but the equipment will be bought and installed as as we can go ahead and do so and so we've put a large emphasis.

00:42:11

Within these first three years on the infrastructure in terms of vessel refurbishments and and making the essay gallas to as.

00:42:18

as best as possible for all of our meetings and then we've also looked at trying to get terrestrial field gear and sort of dark for.

00:42:28

Both Antarctica and Marion island and to sustain not only the long term observations that are currently taking place.

00:42:36

but also to enhance all the programs that have had to be put on standby because there hasn't been enough funding or enough gear available, so you will see listed out there.

00:42:48

We have been given money for soccer 5 million Rand in the first year that has been approved by dsi and we hope to try and extend this art into year two and year three.

00:43:00

To keep the support the fleet up and to keep it well maintained and and moving forwards and, but we have also looked at as best as possible infrastructure that's benefits, as many of the groups, as we can to ensure that.

00:43:15

Each of the disciplines is moving forward.

00:43:18

And then, of course, is running costs associated with this we likely will not be able to cover every single thing that has everybody is needing and everything that goes forward in the draft procurement plan will need to have endorsement from the from the.

00:43:36

Separate advisory panel, so if we if we put this forward and we want this particular multi beam ECO Sander, we need to be purchasing it in year two.

00:43:47

It has to go to the panel, it needs to be approved, we need to make sure we having those discussions with the ftp winners and next money dry dock so that is clear, communications and continuity, at all times to make sure that this all goes ahead, and I think i've got everything to yes.

user avatar

Juliet Hermes SAEON South Africa

00:44:05

that's great.

user avatar

Tammy Morris (SAWS)

00:44:06

Thanks Tommy.

user avatar

Juliet Hermes SAEON South Africa

00:44:08

So we'll have questions about the budget i'm sure after this there's just a couple more slides to look at the governance.

00:44:15

So much Hella showed this slide and I just want to take some time again, to emphasize here that this is.

00:44:21

salary and the government's it's really a risk it's been designed to try and be as responsive as possible to the Community and to try and sell as much.

00:44:31

Ultimately, as much Community oversight through the various panels and as it can be as that that's, the only way separate is going to be successful and sustainable.

00:44:40

So we need not just the Community to buy him, but we need the Community to be involved.

00:44:45

And so much Hello talked about these different panels and how they all fit together, so if we look at the governance system again that he showed.

00:44:55

The joint dsi apologies that PDF effie Steering Committee, the custodian departments that's already something that's in place it's it's a into departmental meeting that happens, I think quarterly and we have SAP we have been very much a part of those meetings in the runner up but.

00:45:18

It won't be a key governance structure but separate will be reporting to this Steering Committee.

00:45:26

And then, if you look at the other committees that were on there, so the separate advisory panel.

00:45:34

And this is really the priority panel to organize and we'd really like to have the first meeting by the end of the year there's been a very much interim panel in place.

00:45:44

And so we're hoping to extend on that so who will be who will this panel consists of the interim separate manager.

00:45:51

dfa and dsi representatives I if representatives and other government departments, such as darko pw idea iot.

00:46:00

What will be the purpose of this panel will really be to initially approve all of the terms of reference for the other tasks teens and panels.

00:46:09

To approve procurement plans for separately, is to connect to a sauce and align separate infrastructure to SAP.

00:46:17

And until the Scientific Committee is formed, it will probably have a much larger role in terms of looking at the science and the procurement.

00:46:26

And then, what are the next steps around this draft terms of reference will be written and nominations will be sought from the institutional stakeholders virus official letter from the SAP three manager.

00:46:40

The next panel is the or the next Committee is the Senate coordination committee and this will consist of the separate logistics coordinator.

00:46:49

diff a fee and Senate director, the Deputy Director of ships, operation and various other Members and the purpose of this panel is to really ensure that alignment of the Senate science projects.

00:47:01

With the infrastructure, availability and also include looking at the integration in the long term, of the Antarctic legacy and data and again draft terms of references will be written and key role players identified via an official letter.

00:47:17

And then probably sort of the the the important one.

00:47:23

Now is, which will probably only be set up by next year, because the terms of reference will be half have to be approved by the advisory panel, but the separate scientific committee.

00:47:34

So again, this will consist of the separate manager the PDP that I mentioned, and researchers from the is, including dfa dsi and Senate related projects, and also as much as I mentioned, will.

00:47:48

hope to co opt in international experts and the purpose of this is to oversee the science of objectives of the separate and provide recommendations to the Advisory Board.

00:47:59

And again draft terms of reference will be written and then importantly will will be requesting qualified nominations from institutional stakeholders.

00:48:08

And co opting these international experts and then the salary for matic user for so this will, in the interim be chaired by the sack routine so.

00:48:20

The champions, and the sales team until the coordinating offices are appointed, so the thematic user for will eventually be chaired by these coordinating offices.

00:48:31

And then the purpose of this is to really provide Community input into salary and provide recommendations to the science panel and these user for will be.

00:48:43

We will ask for self nomination and will circulate a form in order to try and get that self nomination.

00:48:50

And it's really so again just to highlight that this dramatic you, for it is really important is it allows Community input and it allows separate to be responsive to this.

00:48:59

But it's really dependent on the Community getting involved and self nominating and it all depends on participation and it's only with consensus that we're actually going to get things right, so the.

00:49:12

This kind of bootstrap approach of using the user, for, as the platforms for engaging their communities, so, for example, you CT sigh of soccer and the other is stakeholders.



00:49:23

They can then discuss their plans openly with other interested parties and and really to try and ensure equality and openness and collaboration throughout separate.

00:49:34

And that's going to be particularly important for the design of new infrastructure, such as the polar lab and deep sea observing.

00:49:42

But then i'm sort of throughout all these different committees and panels, the progress of sappy will be reported to the Community annually and then separate will be responsive to the feet back.

00:49:53

So i'm going to finish up there, and we can possibly I don't know if we'll turn the recording off or keep it on, but now open the floor to questions, thank you.

user avatar

Marcello Vichi (UCT, ZA)

00:50:05

So thanks so much Julia perfectly on time.

00:50:08

We will have now five minutes just five minutes comfort break we are starting at 1400.

00:50:15

So please be here for the Q amp a and then we'll move on into well I think we'll we'll start from the Q amp a and then see how to get organized in terms of for for the next steps, so please rejoin us at 1400 I will just stop the recording from now.

00:50:38

resuming the recording.

00:50:42

So if you want to turn on your camera that would be that would be nice so there's no need for you just to turn on when when speaking so we.

00:50:50

We become a bit more humans, if possible, so this is going to be an open conversation we have received a few a few questions already, but if that was mostly for you to remind yourself about the question, so we would very much appreciate, if you could speak up and then we'll do our best.

00:51:11

To to explain more and clarify just remember that many details are in the documents that have been shared, so we will make reference to them for further further information.

00:51:32

Okay, just having a look to charmaine Chan.

user avatar

Charne Lavery

00:51:39

hi everyone, and thanks for all of your work on this it's an incredibly impressive achievement so far and very wonderful to hear that it's all going to happen.

00:51:47

And I have what just wanted to do my usual plug for, and you know, in one of the slides, and I think i've provided this feedback at points on the document.

00:51:59

But not quite seeing it reflected that, in addition to.

00:52:04

legacy and database management and outreach to schools, etc, and so at that to use at various levels, I think, also wider societal.

00:52:19

Awareness is worth being raised and particularly because this is the beginning of a polar research institute most from my work in the.

00:52:29

humanities group of scar you know many other polarization institute's have artists and writers programs and so something like an artist and writers program that could become.

00:52:42

You know, could involve documentary filmmakers from South Africa there's a new netflix push out for southern African content for African content and.

00:52:53

You know that that's a way of really raising the profile of South Africa in Africa his role in Antarctica is to even at this early stage, including as part of.

00:53:04

The society side, not just education to learners which is vitally important, obviously, but also awareness in in the wider society and you mean the stuff that I do so, I think, isolated program is very important, and also work that is.

00:53:21

focused on understanding histories anthropology psychology etc, and so I would like to see that reflected in the in the early stages, as well as the.

00:53:37

At, you know as this begins to take shape.

00:53:45

Alright, so.

user avatar

Marcello Vichi (UCT, ZA)

00:53:46

Thanks thanks show me yes indeed that's why we got to our bootstrap or features, or the the user for one of them is dedicated to data product and societal benefits societal benefits doesn't just mean.

00:54:00

outreach engagement and so on, but it's also humanities, it is one of the items in the very big document, and I agree with you that he doesn't come out strikingly clear.

00:54:14

But this is where they use the forum, a dedicated to that one.

00:54:19

would need to started from the very beginning, so that your commitment and the commitment from others involved in this, sir.

00:54:25

In the stock take, and with it with it with the necessary knowledge is is more than net is very important, we want had a coordinating officer, the Ada that.

00:54:34

As part of the user fora, we will start finding out to what are the terms of references for the coordinating officer and what kind of company competencies are required.

00:54:46

And how to shape that that component so so it may not be visible so much, but it's definitely one of the building blocks of the GPS integrated facility surely.

00:55:01

If my colleagues would like to add something.

user avatar

Juliet Hermes SAEON South Africa

00:55:05

Now I think Rias posted some stuff and link.

00:55:10

and

user avatar

Marcello Vichi (UCT, ZA)

00:55:11

I think that's a whole proposal, the proposal, so if you go into full proposal and look for the various integrated facilities, you will see the signs and objectives of each one.

00:55:23

And what Charlie has been talking about it's one of them, but the implementation is not in the proposal, the proposal is giving you directions, giving directions, where we would like to go, but how we are walking through that path that very much depends on how we do it.

00:55:39

So I got my connects to.

user avatar

SANSA - Mike

00:55:44

Hello everybody sorry apologies for background actually don't know how to change it, and I was a judge on some panel that subset.

00:55:53

I was just a bit surprised I mean, I support this entire initiative, of course, and i've been wasn't some of the earlier meetings, there was a bit surprised in the presentation today.

00:56:04

it's not to see any mention of gender equality when it came to transformation and that seemed to be completely missing from the presentation.

00:56:13

And I know it's possible because when I joined sensor seven years ago, the research group was completely white male dominated and now, seven years later it's.

00:56:25

Female male and black dominated so the transformation you're talking about is definitely possible and i'm talking about everybody a PhD level um so I know it's possible and I very much supported, I just want to make sure that women have equal shot.

user avatar

Unknown Speaker

00:56:46

man.

user avatar

Tammy Morris (SAWS)

00:56:48

That is lovely to hear and yes it's definitely something that has come through and maybe we didn't put it as boldly in the transformation plan and they yes, it is definitely.

00:57:06

A female scientists female engineers researchers it doesn't really matter from watch discipline you're talking about now is to is to encourage and to show growth in this sector as well and, yes, so we, we will make go to that, but definitely.

user avatar

SANSA - Mike

00:57:26

yeah and you mentioned the PDP program which we have used quite effectively with actually you know you're not going to have 100% success, but we did use it quite effectively to improve our equity profile automatically.

user avatar

Marcello Vichi (UCT, ZA)

00:57:42

yeah just a clarification that the PDP will be run by Saturday it's not to be it's the PDP modo, but we are not using it through the rf system so it'll be in a specific and dedicated instrument i'm sorry but is funded as line item.

user avatar

SANSA - Mike

00:58:02

Very good, thank you.

user avatar

Marcello Vichi (UCT, ZA)

00:58:04

Thank you, that I got to Jeff and then sandy.

user avatar

Geoffrey Grantham

00:58:08

Okay, do you hear me.

user avatar

Marcello Vichi (UCT, ZA)

00:58:11

Yes, thank you Jeff go ahead.

user avatar

Geoffrey Grantham

00:58:13

Well, just one of the comments i'd like to make would be so on the on the coordination committee.

00:58:19

yeah one of the challenges we have as a scientist or working in the continent is with logistics, and so I think I didn't see that there was representation for.

00:58:30

be a current P eyes or previous P, is to assist with comments on the logistics coordination side of it, I think it's an important part of it, I think it's important to perhaps include people with field experience because.

00:58:43

It is a difficult thing, and if you haven't got people with that experience it can be a problem.

00:58:49

Yes, I see the science penalties, perhaps assessing the sciences feasible or appropriate wherever the coordination committees are very important part of us.

user avatar

Unknown Speaker

00:58:57

component.

user avatar

Geoffrey Grantham

00:59:02

The one of the other aspects as an African look at the organic grammar oh.

00:59:07

One thing i'll just to try and at least keep scope for geology in Antarctica it's important to recognize that we don't necessarily have to work from the base and so Center is seen as a base operations, but we don't have to work from Center and so in that organic grams.

user avatar

Unknown Speaker

00:59:25

terrestrial based.

user avatar

Geoffrey Grantham

00:59:27

processes or programs, or at least like to have say, besides the Center base the additional its component is to do we want to work for broad areas in DNS not in Santa we just don't want to be restricted to working from Santa.

user avatar

Marcello Vichi (UCT, ZA)

00:59:48

Okay, thanks thanks Jeff.

user avatar

Geoffrey Grantham

00:59:50

And just just in terms of the budget side of it.

00:59:53

I don't know with any field programs going on and then talking at the moment, this is not been some of those budget items could possibly be be delighted to later if they're not going to be required in the near future.

01:00:09

For example, the piston boolean I don't know if you'd be able to borrow money for that sort of money at the state and there's.

user avatar

Unknown Speaker

01:00:15

Nothing scary.

user avatar

Geoffrey Grantham

01:00:16

I don't know it's just i'm just making a comment on the budget is stance, and the same would apply to some of the other stuff now, we obviously need this stuff to get into field, but if there's no program going on, I don't see much purpose in putting money in that direction at this stage.

01:00:34

know if there's budget is real and it's going forward.

user avatar

Marcello Vichi (UCT, ZA)

01:00:39

Okay, thanks.

user avatar

Geoffrey Grantham

01:00:41

Lucas you want, as what I have to say.

user avatar

Marcello Vichi (UCT, ZA)

01:00:44

Thanks Jeff.

user avatar

Tammy Morris (SAWS)

01:00:45

yeah i'd like can I come in with the budgets.

user avatar

Marcello Vichi (UCT, ZA)

01:00:47

Yes, please.

user avatar

Tammy Morris (SAWS)

01:00:48

um So what we what we looked at when we went through because we received all this course on 20 different proposals with a whole list of equipments and obviously approximate.

01:01:00

costs, and this was obviously two years ago and and given the exchange rates and things, everything will have changed so so when we get to that part of actually procuring instruments it's going to be very interesting to see what's going to work and what's not.

01:01:16

But certainly what what we were pushing forward in this first phase was to look at the essay gallus to and to make sure she was for purpose for as many other disciplines as possible.

01:01:27

And she's she's good, but we can make it better and not saying that is not good and but also.

01:01:34

To ensure that those long term monitoring programs continued so it's okay So yes, definitely if we don't see the value right now in year one.

01:01:44

Year to have purchasing terrestrial equipment, but there's the field campaign that could be living in year three and let's get the SEM processes up and running, sooner rather than later.

01:01:55



Then, then we need to assess that definitely and but we we didn't want to leave behind any of the programs, where we could be benefiting in the here and now, and.

01:02:08

And also, which comes first, if we if we have the equipment they will come, they will boards, they will you know what is needed in order to encourage.

01:02:23

projects to the next senate cycle if we say right, we can do this, this, and this can can you build a program can be inspiring so it's a little bit of all of that rolled into one if that makes sense.

user avatar

Geoffrey Grantham

01:02:36

Oh can understand that to me the one one comment which you have we've always made from a science point of view as well, because that.

01:02:44

We always restricted by spatial Nicholas we don't want to be an eagerness and so in the REE REE assignment of budgets which one was talked about.

01:02:54

One would also perhaps like to provide a different component or support a component in a that one can work away from the Dallas and give us a longer field season did, then, is a good argument to have the field equipment in place but it's the golden girls is 30.

01:03:11

Over over booked in a sense, we forever going to be restricted to these miserable little parties with very limited equipment and so to to accommodate both how is going to be allocation of budget from.

user avatar

Tammy Morris (SAWS)

01:03:25

An rfp is often.

user avatar

Geoffrey Grantham

01:03:26

If you would like to see an additional component for access outside of the goddess, which is actually important to supporting longer term field seasons, for us, so.

01:03:36

Important yeah.

01:03:38

The one comment on that as well as it, you know the nature of our work, we only get at the end of the day, probably almost a month with a field work based on whether constraints.

01:03:50

And to come back to the development of of scientists and so on, it is really difficult for Sunday to do a PhD based on just to fuel seasons.

01:03:59

And yet there's only two because you get your grant for three years and you only end up going on getting to field seasons maximum and then you attain your ground.

01:04:08

And so.

01:04:09

it's very important to maximize the field season and then you can accommodate preps be the students, but at the moment, things are just very logistically difficult from all sides from timing from equipment from access to field.

user avatar

Tammy Morris (SAWS)

01:04:26

that's why we felt.

user avatar

Unknown Speaker

01:04:27

Sorry.

user avatar

Tammy Morris (SAWS)

01:04:30

And then the positions that needed to be fold, first and foremost was your separate manager, but that logistics coordinator, that person that was going to work between saffery the dsi the dsp.

01:04:43

Working with information around the the ship scheduling what's happening where's this space, you know that person, that is, as is the go between the logistics go between.

01:04:54

them, we felt that position to be incredibly important for the very reasons that you're raising.

01:04:59

You know how many flights are going down, can we get from the space to their face or what is possible in the summer season and we felt that was more important to fill their purse to make sure somebody could assist.

01:05:11

Right off the BAT, if possible, so that we could address exactly these things and make it possible yeah sorry much other things.

user avatar

Marcello Vichi (UCT, ZA)

01:05:19

No, no that's okay that's perfect, I just wanted to really reiterate that I know that it's a 200 overwhelm they are 200 overwhelming pages.

01:05:28

But the principles and most of the things that i'm hearing now are in the document and founding the directions of where we are so the Senate P eyes are already component.

01:05:39

Of the scientific of the coordinating committee because there's no way you can handle logistics and coordination, without having the p eyes of the funded projects involved.

01:05:49

As well as other people for future projects involves through the thematic and four, so I just would like to.

01:05:58

Ask really guys lots of time went into that proposal and that proposal is distilling most of the things that we have been discussing with you.

01:06:09

If you haven't seen it in this presentation that doesn't mean that it's not.

01:06:14

Informing and directing where the suffering is going so if something is missing it's they use it for are exactly the place where they should be detailed in such a way that.

01:06:26

The the proposal what is now in the proposal would become real implementation, we need to take things in step and that's where the priority will have to be to be.

01:06:37

To be decided, but most of the things like the extension of the season, the fact to use alternative.

01:06:44

Al transports, rather than the ship, they have all been included in there, the point of that without a system in place again advisory panel, as well as an official representation you can't get to the the official the contracts in place for all the things.

01:07:05

That I got Cindy and Carol and then Anthony.

01:07:09

And then we got a few questions sorry in the chat but i'll come to that later after on some of you don't have a MIC microphone but i'd like to handle them sandy please.

user avatar

Sandy Thomalla

01:07:19

Thanks so firstly just a huge, thank you for the champions and all you've done and the progress made so far and for updating the Community.

01:07:26

So my question is actually quite easy one, I think i'm it was really along the PDP postdoc plans.

01:07:33

And I was quite interested to see that, from what I could gauge those roles, with very technical roles.

01:07:39

And i'm just not i'm not used to post off being a technical role i'm used to it being a science roles I just wondered how you.

01:07:46

Others postdocs at technical institutions or how did you will see those postdocs being postdocs but being in this very technical role that i'm a little unfamiliar with it, maybe you just elaborate a little bit for me well.

user avatar

Juliet Hermes SAEON South Africa

01:08:00

So me, so I think, because the sliders up so quickly, so they actually post up instrument scientists so they're not technicians, so they will be.

01:08:13

Working it's within a national facility, you know it's that kind of structure so their job will be working with the instruments.

01:08:21

But developing that but not as a technician as a scientist, so they will still be publishing they still will be growing their career but they'll be within a national facility so there'll be supporting other scientists as well.

user avatar

Sandy Thomalla

01:08:36

So they will be very instruments specific then because it would be like this is my instrument, and I know how to use it well, so I suppose, then we need some sort of major retention plan and.

01:08:50

You know, because you know we We just need to grow that a little bit more broader but anyway, that does answer quite a bit.

01:08:59

of their question but I suppose the retention plan then becomes really important.

user avatar

Juliet Hermes SAEON South Africa

01:09:05

yeah but I mean so like like I mentioned what we would envisage is maybe that you soccer csir would have the space to take on one of those as an example, one of those PDP to grow them within the robotics and to work with Sarah.

user avatar

Marcello Vichi (UCT, ZA)

01:09:21

But these people will also become the future coordinating officer of the degrading facilities, so this is very much the succession plan, we need, we need to build the people who are running the infrastructure.

01:09:33

So that's what the B2B is about and we need to be to have people have been growing their own knowledge.

01:09:39

At the PhD level because they need to be internationally recognized, but the publishing they would do is not the one you are expecting as a normal scientists, because this is an infrastructure and the infrastructure is not meant to produce science, on its own.

01:09:53

it's meant to enable the size, through it, but do you want to deal with people who know as a scientist, you want to deal with the team and an infrastructure management team that that knows what what needs to be done.

user avatar

Sandy Thomalla

01:10:07

No i'm.

user avatar

Marcello Vichi (UCT, ZA)

01:10:09

Sorry.

user avatar

Juliet Hermes SAEON South Africa

01:10:11

Just for those that aren't.

01:10:12

Familiar Thank you sandy PDP as a.

01:10:14

professional development position, so the whole point behind a program is that they are not pure academic scientists that they grow.

01:10:23

learning about other things learning about business planning learning about instruments, exactly as much as I said, so they can then take on.

01:10:30

A row which is, as the coordinator, or something so just for those that don't know the PDP program in the nrl it's been a very successful model but yes, we do need to look at the retention policy.

user avatar

Marcello Vichi (UCT, ZA)

01:10:44

Thanks Carol.

user avatar

Carol Jacobs

01:10:51

hi good afternoon everybody, and thank you so much for these interesting and exciting developments, and I think that probably what i'm going to ask you is already in the document which i've i've not seen I don't think so i'm going to just rush in, and you can help me from off the.

01:11:10

So you've got an agreement with the Department of science and infrastructure or a business plan that there are approving, is there a similar type of agreement with.

01:11:20

For the logistics, or how would that link be formalized so one question second it relates, obviously, then, to the you know, to the logistics and the.

01:11:31

Ship and the base capacity and.

01:11:35

and, possibly, how you would align the says separate prod projects with departmental priorities and things because that's that's one of the issues where there was discrepancies.

01:11:47

leading up to this so so i'm not sure how that's going to be alleviated or managed, then the second question is.

01:11:55

In terms of environmental and bio security considerations, you know things that are governed by the protocol environment prediction to that or Treaty and the management plan for Marion Prince Edward and how will those mechanisms be retained or.

01:12:11

Projects be subject to is that also is probably also in the document.

01:12:17

yeah So those are my two main questions thanks.

user avatar

Marcello Vichi (UCT, ZA)

01:12:24

Thank you.

user avatar

Carol Jacobs

01:12:26

me.

user avatar

Marcello Vichi (UCT, ZA)

01:12:27

One explain the business plan.

01:12:29

Or maybe Juliet.

user avatar

Tammy Morris (SAWS)

01:12:36

today.

user avatar

Juliet Hermes SAEON South Africa

01:12:39

So Karen you were asking how we're going to sort of help ensure that the dfc logistic component is.

01:12:49

taken into account that.

user avatar

Marcello Vichi (UCT, ZA)

01:12:51

She was asking whether there is a dedicated document for that, but probably the main most important point is that the business plan has been written together.

user avatar

Juliet Hermes SAEON South Africa

01:13:01

With yeah.

user avatar

Marcello Vichi (UCT, ZA)

01:13:02

With the df a fee so i'm not sure whether we can share through the link to the business plan and we can reshare it again, and you can tell that the df a fee branch is one of the.

01:13:16

Of the authors, so it has been discussed jointly, so all points in their.

01:13:22

Joint degree.

user avatar

Juliet Hermes SAEON South Africa

01:13:23

And then that will be further enhance going forward with the variance governance boards you'll see that the ffa are represented on all of them, and not just oceans and coast, but also Antarctica and islands.

01:13:35

And then you've got this overarching at the de de de de level where the dsi and the dsp will talk so you're right, I mean it is something that is.

01:13:45



Very important very, very important, and also very, very difficult, but the best way we can manage it is through as Marcela said co writing the implementation plan and then having these governments bodies and to try and ensure the conversation keeps going.

user avatar

Marcello Vichi (UCT, ZA)

01:14:06

And it wasn't environmental.

01:14:09

Can you go.

user avatar

Tammy Morris (SAWS)

01:14:12

In terms of the buyer security and that side of things, and so what we did say a particularly from Marion Ireland was to the chairperson of their P E.

01:14:23

A C, who I think is invalid at the stage, and it needs to be kept on in the loop and on board with.

01:14:32

was all of the things that in terms of particularly for Marion but in terms of the implementation plans, and so we need to make sure that we are.

01:14:42

So that logistic person is going to have a lot to deal with in terms of not just the ship scheduling but to make sure that.

01:14:49

All the correct procedures are put into place, and whatever is is because I know biosecurity is being built up and you're getting it to a point where the protocols are.

01:14:59

established for the key side for the ship for for the islands and for everything, and so we need to ensure that whatever science.

01:15:06

gets ramped up whatever work gets ramped up it's it conforms to those environments and procedures completely yes, and so we did want to include that or we did suggest that those people getting treated within those.

01:15:21

Logistics coordination Center bodies to ensure those discussions stay open.

01:15:27

If.

user avatar

Carol Jacobs

01:15:29

I think that that's very helpful and bullet is also a representative at the Committee for environmental protection to the Arctic Treaty, so he could you know fulfill a dual purpose, the next great.

01:15:40

Thanks very much.

user avatar

Marcello Vichi (UCT, ZA)

01:15:41

Thanks so.

01:15:43

Before coming to you.

01:15:45

And just a second there's a question there's a point from Elizabeth.

01:15:48

And i'm not sure whether whether people.

01:15:51

She was suggesting to.

01:15:54

To establish and former representation of early career researchers, this may be to lose a lot of the gaps between disciplines post Grad continuity science communication outreach education.

01:16:05

The the epics or South Africa, for example, they can provide supporting function in this role, all of this has indeed been included, and I think there's an answer from Juliet about that one, and it would just refer to that, compared to that one in on the chat Anthony and then any.

user avatar

Anthony Bernard

01:16:24

yeah thanks very much guys, it is looking so very exciting and looking.

01:16:27

Good I know the budget is obviously what it is you can't change much there and but just in terms of the sea floor infrastructure and and how the budgets been assigned.

01:16:39

wasn't assigned with ideas in mind in terms of what was going to be purchased in years one, two and three, or is it just a percentage assignments based on what's available what's the one question.

user avatar

Tammy Morris (SAWS)

01:16:53

Okay, so it was definitely structured around and getting the vessel ready and so infrastructure that groups had listed.

01:17:03

To to build up a cyclist to so the way of radar PCs to system refurbishment Gal etc, etc.

01:17:13

And the Multi beam ECHO Sander, which is the only piece of equipment that at the stage needs a dry dock you think for installation and thereafter long term monitoring, so we but we didn't want to leave any of the groups off in terms of building up capacity and building up.

01:17:34

or getting started with the work, so it wasn't necessarily a percentage, so this is where it's going to be interesting over the next little while so we're already in end of September.

01:17:47

We effectively have six months to spend 25 billion Rand because the financial year ends the end of March does everybody see the problem with this is scary.

01:17:56

And, and you know when that funding is going to be released and then we've got Christmas time and the pyramid structures of government funding, so it is going to come down to a lot of.

01:18:08

sort of how do we do this, can we roll the funding forward are you can buy now can you go ahead and buy offending I can only buy in the next year, so there is going to be.

01:18:18

A lot of we've put through the best case scenario, but it may not work for all the teams, because you, you can imagine there's a lot of groups that are are wanting to purchase equipment now.

01:18:29

And, and so it may come down to this can be done now that can be done later and what if it gets approved by the the saffery advisory panel at the time, so it's going to be a constant discussion, I think, with the groups.

user avatar

Unknown Speaker

01:18:46

That makes you.

user avatar

Anthony Bernard

01:18:48

Know hopefully they do allow the rolling over the phones, because a lot of these things will require at least six months of preparation.

01:18:58

And the other thing I was wondering about was with the Multi beam across Canada and who's going to be operating that on the vessel like will they be dfa people trained up to operate that or is that something that's going to have to come out of the technicians from within separate.

user avatar

Tammy Morris (SAWS)

01:19:18

So I did in order to try and understand the equipment, I did do some background research on some of the instruments, the Multi beam being one of the biggest ones.

01:19:31

And, and what will happen is the group that we eventually appoints to come and install it and I think there's only two or three manufacturers in the world.

01:19:42

And they will need to come out and do some training as well, so we would like to train and at least a wider group so.

01:19:51

six or seven technicians or scientists even that are identified as key users of the instrument but that's the technical roles that we have put forward and particularly under LTE or should there is a general instrument technician and.

01:20:09

Another technician a seagoing technician so those two and minimum would need to be trained as well, and so we would like, as wider group as possible, so that they can be a sharing of skills, because you cannot just train one person.

01:20:24

We all know that this is a very bad idea, but ideally at least five or six on that particular instrument so that but also on the data handling the archiving and the process in there after it's a massive job and.

01:20:40

As I understand it, the Center might be able to assist us as well, because they do have some instruments on their own vessels, so there may be some sort of collaboration that could be forged there.

01:20:53

And that would have to, and obviously the Council of json so I don't think he's on this call to men, and so it would be good to have as much collaboration as possible, I think.

user avatar

Anthony Bernard

01:21:04

Definitely that sounds good thanks.

user avatar

Marcello Vichi (UCT, ZA)

01:21:11

Okay next one line is any.

user avatar

Annie Bekker

01:21:16

Thank you very much, I just had to short comments, the first is about i'm very excited to see this part of the presentation we talking about a pilot at gct fact that there's a new building.

01:21:30

That is going to be a digital footprint there and I also like the fact that it's distributed between several centers.

01:21:36

Because.

01:21:38

It means that you know if we have any marketing material or i'm thinking about our engineering models about of the ship.

01:21:47

That there's going to be several places where we can distribute this and you know give people exposure to that and I also just wanted to mention about diversity and increasing the impact of the.

01:22:02

Other work, I was just also wondering if our proposal have considered also impacting ship personnel and what I mean by that is.

01:22:13

Like the crew and the captains and because I for sure, I think that, like some of the results from the work that we are doing.

01:22:22

um you know, could lead to like the insightful operation of an asset, so that is also another type of development and maybe that could be measuring also all our diversity in terms of.

01:22:36

How many researchers, etc, we can reach and i'm also hearing that you're asking for engagement and I think for us a very natural way of engaging with V to share our results of what we actually finding on the ship.

01:22:50

And to relate that to the crew and to kind of have an it's an not it's an upscale.

01:22:57

And like making also the people who are working in the logistics and the operation of our vessel more equipped and more informed about what the ship is doing in this environment and therefore also creating another angle of excellence, but anyway that's it.

user avatar

Marcello Vichi (UCT, ZA)

01:23:16

Thanks so much i'm just quickly coming in, on the on the concept of of.

01:23:20

Digital Antarctica, which is a.

01:23:22

project on his own and that's not located within every single infrastructure but it's Of course this computer that the main underlying idea of a digital.

01:23:36

of digital information that can be everywhere, and this is what we want and we want people to experience certain.

01:23:43

entity condition in La in the Barclay controlled, and for that you need a building.

01:23:48

But we want people to experience that to view to see the data being generated everywhere in remote places, but, as well as in the labs everywhere, as well in the country, so this is the concept of the digital.

01:24:02

Of the digital Antarctica it goes far beyond visualization it means.

01:24:08

What we envisage and that's where we need the the the collaboration of everyone, what we envisage is that we will have students or even other people working.

01:24:16

On your project that dedicated to your project to anywhere and then broadcasting, the data to your lab that's that's the future we want to and it's not that far away from us.

01:24:28

But technology exists it's just a matter of organization and it's a matter of planning that's where they use a forum.

01:24:34

We use it for becomes necessary, you, you need them to create the technology for measuring but also the technology for communicating and transferring and story, we got.

01:24:46

We got all bits in place and the organization needs to it doesn't exist yet and that's where the again the DPS data product and societal benefit.

01:24:56

is essential and the coded and then good coordinating officer with that broad vision of integrating everything from humanities to ours to technology we don't want to keep them separate we really want to have all of them together.

01:25:11

Maybe tell me, you can go ahead with the.

01:25:15

Second part

user avatar

Tammy Morris (SAWS)

01:25:18

The second part of any comments about the about the vessel so what's what's interesting is through the transformation yeah the thing to be keen to do was was to engage as many disciplines and when we spoke about this.

01:25:34

When we sat down and develop the transformation fan, it was not just disciplines within the sciences.

01:25:40

Such as physical Oceanography and biogeochemical ocean or a few we needed to engage everybody the people that are working on the vessels, the engineers and, if you want to be a navigational officer is too.

01:25:54

Because when you talk to when you still talk to learners when you talk to students, they don't all want to study science they don't care about maths don't know why, and so you will get a whole range of of.

01:26:09

Students or learners that are keen to go to work into the Marine field but are not keen to do, science, so we need to make sure that we're capturing as much.

01:26:21

as much a part of this as possible, it also feeds into our blue economy, which is something that is supposed to be developed.

01:26:28

Through the the dmv and other government departments, so we want to be engaging as much as possible, so if we can take back to.

01:26:35

them the do T and to people that are training navigation offices, this is what happens to a ship when it bounces around in the ice would be incredibly useful, and I think that would be a great way to encourage that transformation up into into studies.

user avatar

Marcello Vichi (UCT, ZA)

01:26:55

got my.

user avatar

SANSA - Mike

01:26:57

Thank you, I just wanted to support your statements.

01:27:00

marcelo that you just made, in my opinion i'm firmly of the belief that learning by doing is by far the best way forward.

01:27:08

So we should always try to encourage as many people as possible to go on the ship and other places, and in fact if we ever have empty purse on the ship and I know I think we'll have failed.

01:27:19

On there's nothing better for a student and their project and to actually get some field work in some field experience same for it, and the same goes for everybody else the technical side, etc, etc, we should always aim to keep that ship as full as possible.

01:27:36

into sales yeah.

user avatar

Marcello Vichi (UCT, ZA)

01:27:39

Thanks Mike.

01:27:43



i'm just checking.

01:27:46

Where are the.

user avatar

Tammy Morris (SAWS)

01:27:47

Two there's a very interesting.

01:27:48

chat going on my cello in the in the.

01:27:52

Discussions around the budgets and birth Tommy and Sarah confirm that, through biography and zachary.

01:28:00

And that there they can be adjusted adjustments to the line items of the budget items and that have been put forward so by no means the three year budget that we.

01:28:10

have put forward is set in stone, you know, so that they can be adjustments to that, and they can be roll over funding and particularly as we're quite close to the end of.

01:28:22

Year ones procurement plans ready, and we were just to give a bit more background when we spoke to the dsi they did say to us.

01:28:33

Look, if you can at least show that you have committed funding so even if you haven't spent it like physically the money has gone out of one bank account into another to pay for a piece of equipment, you have at least committed that through.

01:28:51

purchase order numbers, or even a rfu tender process because anybody who works within the government departments understands how long the pma can be and then at least if you can show that back to.

01:29:04

To the board and to the R is, it is a good way forward, and so, so they were encouraging of that as well as to get the ideas going and to get the procurement process moving at least and to see how far we can the separate to get within this first year essentially.

user avatar

Marcello Vichi (UCT, ZA)

01:29:28

Thanks.

01:29:28

We got Sarah but before that sorry Sir i'm coming to you there's a comment from me a question from Anthony on the chat is asking about the the user fora, you want answered on the.

01:29:40

Down low and Julius.

user avatar

Juliet Hermes SAEON South Africa

01:29:41

I was just half typing in so and there will be at the integrated facility level so that LTE or land ocean DPS and polar lab.

01:29:49

is eventually they'll be run by those coordinators, but so in your case where you've got the sea floor falling under I to.

01:29:55

It will be essential that the sea floor and side is represented in the automatic for so it will be like it'll be self nominations, but obviously when you've got those sub things you'll also have the soccer in the mornings.

01:30:11

We will make sure that the representative from sigh up is a key part of that magic for and then thanks Tommy and Sarah with regards to the budget.

01:30:20

Yes, and that's why we, there will, there will be massive changes i'm sure and that's why we need the femme the medic for in place so that they can then.

01:30:29

advise on the most urgent procurements that we need to consider, so that we can get them endorsed by the advisory panel so it's we've got to do everything in parallel very quickly so everyone just be prepared to be involved.

01:30:47

Please Sarah.

user avatar

Sarah Fawcett

01:30:51

Thanks Julius yes, I think that they're probably sums up my experience and tidy everything very rapidly in parallel and we spent a lot of time before the biography budget was even fully approved already getting quotes and putting together tender.

01:31:09

Language etc, etc.

01:31:12

So, to try and kind of make this speak quicker once it could happen i'd be yeah my experience has not been quite the same as tommy's in terms of rollover of budgets we were under a lot of pressure to spend in.

01:31:29

By group started towards the very end of one year, one of the government's financial years, and so we just you know because we had all these quotes and things already.

01:31:41

bought a huge amount of equipment, because it's The easiest way to spend money quickly.

01:31:47

Because they wouldn't release the year to budget until you one was spent but.

01:31:51

You know, maybe you won't have exactly the same experience, but in any case, I think everything I wanted to say has been said that yes, getting these flora, if this is the mechanism by which it's done up and running as quickly as possible, I totally agree with entity.

01:32:08

That yeah okay i'm done but.

01:32:11

I guess the thing I would say, is there was a lot more flexibility for us in terms of.

01:32:15

You know something that we'd said, we were going to buy in year three because there was a huge budget in year when the dsi was perfectly happy to allow us to procure it in year one.

01:32:25

With a little bit of motivation in an explanation for how the other things were sort of all going to fit in around it, that much more so than rolling many over.

user avatar

Tammy Morris (SAWS)

01:32:37

So I guess it's who spouses, with a quote right now.

01:32:41

i'm kidding i'm kidding.

user avatar

Marcello Vichi (UCT, ZA)

01:32:43

You don't get any one start with this.

01:32:48

Thanks thanks very much i'm just checking if there's any other raise hand can't see any anyone who can't raise the hand because sometimes they are hidden but we'd like to.

01:33:04

make another question, so please pick up.

01:33:10

Okay doesn't look like.

01:33:13

You can keep speaking up because it's exactly that, I mean the next steps we would like to get the very first step, we would like to get started, is the organization of the user, for you haven't.

01:33:26

dealt with the way they are, they are built around the the integrated facilities, and this is one way to ensure that the coordination is followed up by one member of the management team once they'll be they'll be funded so as as I briefly said before the idea of the.

01:33:48

Institutional.

01:33:52

Succession planning is that people trained within the infrastructure with then become the coordinator of components of the infrastructures later on.

01:34:04

And this is why we have this three year period during the implementation phase we are more emphasis has been put on the training and transformation bland rather than in the coordination.

01:34:19

Apart from the coordination of high level logistics, that is necessary.

01:34:25

To make sure that some of the fragilities that have been identified and there's plenty of explanation in the proposal.

01:34:32

And it has been accepted and recognized by all the line departments and the in the stakeholders involved that.

01:34:38

They need to get sorted out so that's where the logistic coordinator is one of the most important person in place.

01:34:46

As well as all the service level agreements, a memorandum of agreement so that needs to be in place, because we want proper institutional recognition.

01:34:56

that's the way things work and that's a way that would allow us to distribute properly the infrastructure, again according to the model that is currently in place for a set.

01:35:07

aside, so we got a few important steps and that they will have to be done informally at the stage not completely informally, because everyone is informed.

01:35:18

about the way we would like to go, but this is not done under the existence of the of the separate.

01:35:27

And not done by advisor or supervised by the management team that because it doesn't exist and about acting acting figures at the moment at the moment.

01:35:38

But use it for an hour one way of circumventing this chicken and egg problem problem of waiting for official.

01:35:46

engagement to be done nominations to be done, and so on in such a way that we then after that the process can start and roll over again and time will take us to the next year and we will run into the problems of spending the money.

01:36:01

So if, by now, and I would say really now before the end of the year, we are capable of organizing the user forum and discussing the most relevant components that would involve would require effective and.

01:36:20

And and rapid measures in such a way that one, so the money or in and contracts can get started, that there is already agreement and we just need to draft and sign.

01:36:32

or even the draft is already in place, you just need to make to make to be made, efficient, so our very first step will be the starting of the user.

01:36:42

The implementation of the user for the idea that the champions, which means the extended soccer team that also includes the existing Center components like Elsa and semester, because they are funded through the Center.

01:37:02

We will be how being to chair at the beginning and to create a to align the functioning of the user fora in such a way that they are instrumental to this process, our first intention is to send out to the same.

01:37:20

We don't have a dedicated meetings, this is an open call for commitment this commitment with translates later on into official commitment, but not at this moment.

01:37:33

We already have some institutional relationship, like, for instance, as it was mentioned previously, with the deep sea Observatory.

01:37:42

it's obvious that someone representing cyber will be involved in the It Ocean and the same will be happening for the polar lead from new city and as well for the for the terrestrial components, or when we will have to deal with it.

01:37:59

With a Marion island observational people and so on, so we have already some institutional stakeholders that are directly involved, because they have been engaging with the proposal from the very beginning, providing their own view.

01:38:14

So i'm expecting a pretty natural involvement of all of this into something that would become functional and official at one point, we will be sending out.

01:38:26

invitations to with forms to indicate your interest for the for the Its sorry for the for the user fora I just would like to be very transparent and clear don't be worried, of being left out, you don't need to be in all of them, because that's actually going to be a problem.

01:38:51

If you do that if your institution is working across multiple disciplines in the boiler space, then it's very important that you have more people it's not just you everywhere.

01:39:04

We are not going to the big decisions will be done once the advisory panel is in place, now is the time for making sure that what is being.

01:39:14

presented to the advisory panel and the management team for signatures, and what will go into terms of reference is actually coming bottle map from the needs of the Community.

01:39:27

tammy and Juliet or your hand you want to add anything on.

01:39:33

This i'm ready to starting to score, the people before this.

user avatar

Tammy Morris (SAWS)

01:39:38

i'm happy.

01:39:39

Thank you.

user avatar

Marcello Vichi (UCT, ZA)

01:39:43

Okay, we got so so next step is is going to be the.

01:39:50

invitation for self nomination for the user for the four of them, the polar lab LTE ocean LTE or land and the data products and society and so size of benefits.

01:40:06

We will make sure that you don't have to read the the entire document.

01:40:12

The entire 200 pages in the invitation, but if you really want to be committed, please make sure that you have gone through that component in such a way that you can clearly articulate what's missing really.

01:40:26

And if it's there then it's important any fair and you're happy with that.

01:40:31

it's not just enough because we may not be implementing it, the people who've been driving this entire community effort may not be the best implemented, you are very likely to be the best implemented of those kind of things so it's quite important.

01:40:47

we're asking for individual commitments that would become institutional commitments later.

user avatar

Juliet Hermes SAEON South Africa

01:40:56

Just to add quickly two things to that I don't see any hands up so also just that taken on board all of the comments and everything so that will be taken into account.

01:41:07

And if anyone is interested in getting more involved in the transformation plan as we begin to look at setting up to ours and the PDP.

01:41:18

We will do a call for people to host them, but if anyone wants to contact us and say you know i'm This is something that I really want to see happen, this is something i'd like to support, how can I get involved, please do because it's only through your.

01:41:32

Involvement that we're going to achieve this, so please just reach out and say you're interested in supporting that and also just on top of what my Teller said, please also bear in mind that you might not hear from the team for a little while.

01:41:51

Because it's going to take the process, you all know, the process i'm sure Sarah especially and Tommy so it's going to have to wait for the nsf to sign a contract for the interim manager to then be appointed and only after all of that can we start sending out.

01:42:09

Everything.

01:42:11

So if there is a silent gap it's not that there's no action it's just that we are waiting for the formalities.

user avatar

Marcello Vichi (UCT, ZA)

01:42:22

Thanks Julian.

01:42:25

there's an important comment from Ria, which is quite relevant separate is an infrastructure.

01:42:35

In the separate proposal, and when conceptualizing the whole thing and it's even in the name of separate, we have a long term intention to join together the infrastructure and the science at this stage, the two are still separated, because what TSI is funding is an incident is an infrastructure.

01:42:57

The science is emanating and being enabled by the infrastructure.

01:43:03

You all know that masa and the and actually the other Todd Tucker and South an ocean science program that was signed an end was conceived by scientists almost 10 years ago is pretty close to an end, so we will need to start designing a science plan for South African Paula.

01:43:24

initiatives based on what the international community is doing and based on the fact that many of you are active participants of the international arena, and we would like to contribute to those directions even developing new directions.

01:43:38



I think it's quite important that that we would use the software as a springboard for organizing the scientific component as well in such a way that in 10 years time, as you will see in the.

01:43:52

In the in the long term planning for the salary, it could be joining into an effective South African Paula research institute with pillars dedicated to infrastructure, as well as bill as dedicated to.

01:44:06

To the science component and maybe finally having additional the possibility to hire additional people, but in the meanwhile.

01:44:16

it's universe it's universities it research institutions, the places where this would need to be to be grown and it's very much about you to make effective use of infrastructure that we have been.

01:44:32

Building all together, not just to complain about what's missing for your own science, but think for the for the science of the future.

01:44:39

We are i'm very glad that many of us are many of you are actually young enough to be around but i'm unlikely to be around when most of those things would be functioning.

01:44:50

And so I can design things for my son, I need to design things for the science, that you will be doing and I and it's quite important that everyone needs to think this way, so when we were starting to work in the user forum, this is the attitude that we are looking forward.

01:45:09

Any question.

01:45:16

Any last minute comment.

01:45:21

Okay.

01:45:26

If there is none I don't see anything in the chat.

01:45:31

So just to recap the final the next steps for as jude said we won't be we are waiting for the official signatures and all the rest, but the informal components that.

01:45:42

will go on you won't be hearing further formal communication so that doesn't mean that things are not going on in the background, your hand, who has been very silent, the Managing Director of.

01:45:55

Sales now is working hard to make sure that all bets are in the proper place for for a for a proper start, so I would like to thank you Hannah before foot foot for the job but he's been he's been doing it and for endorsing and helping us navigating this complex.

01:46:16

National framework that we have, but the very next step is the call for the for the for the user, for that will come quite soon, we will need to.

01:46:29

Based on the conversation today, we will properly indicate some initial terms of reference, which are not the official ones, because they will need to be.

01:46:40

decided by the advisory panel in one place, so we need to get going in this hybrid way to make sure that we are ready as soon as we are officially recognized.

01:46:52

As one question from an yes.

01:46:55

And you want to you can speak up.

user avatar

Anne Treasure

01:46:58

Sorry once I realize i'm very last minute, she also follows on from this video on in a way, and that popped into my head and then I forgot my son your moon, but I have to ask it.

01:47:09

To Joe Thank you very much for the presentations and the updates.

01:47:13

which I just wondered about in terms of the international community and integrating and reporting to scar, for example, is there, something that separately, will do all this will be done through the South African National committee 3D aside for now at least.

user avatar

Marcello Vichi (UCT, ZA)

01:47:27

guys thanks so much what I like Is this another line in the menu once we got Yes, they the data product and society is exactly meant to do that, to become the home for all those Catherine scientists that are currently reporting.

01:47:42

At the values scar work work work work working groups and so on, and many of you have got an institutional role.

01:47:51

That is unsupported you don't really know whether you're speaking for the whole Community or for yourself, I know this frustration.

01:47:58

That has been included in one as one of the components of the of the GPS, how to implement it in terms of the office coordination, this is what the implementation phase is about, and particularly the user forum is about.

user avatar

Unknown Speaker

01:48:15

Thank you.

user avatar

Anne Treasure

01:48:21

Okay.

user avatar

Marcello Vichi (UCT, ZA)

01:48:22

If there are no other questions, I think we can thank you for your time.

01:48:28

and

01:48:30

you hear from us soon, but it won't be just us from this moment on, because it's us in the sense everyone yeah.

01:48:44

So for me is, thank you very much again and.

01:48:48

Julie tammy Johan maybe you want to.

user avatar

Tammy Morris (SAWS)

01:48:51

just say hi to me.

01:48:53

Your hand is gone I don't think there, thank you very much, and if there's any questions to shot we'll see what we can get going.

user avatar

Juliet Hermes SAEON South Africa

01:49:03

yeah thanks everyone.

user avatar

Anthony Bernard

01:49:05

Thank you guys, for the hard work.

user avatar

Marcello Vichi (UCT, ZA)

01:49:07

Thank you.

user avatar

Charne Lavery

01:49:11

Thank you all.