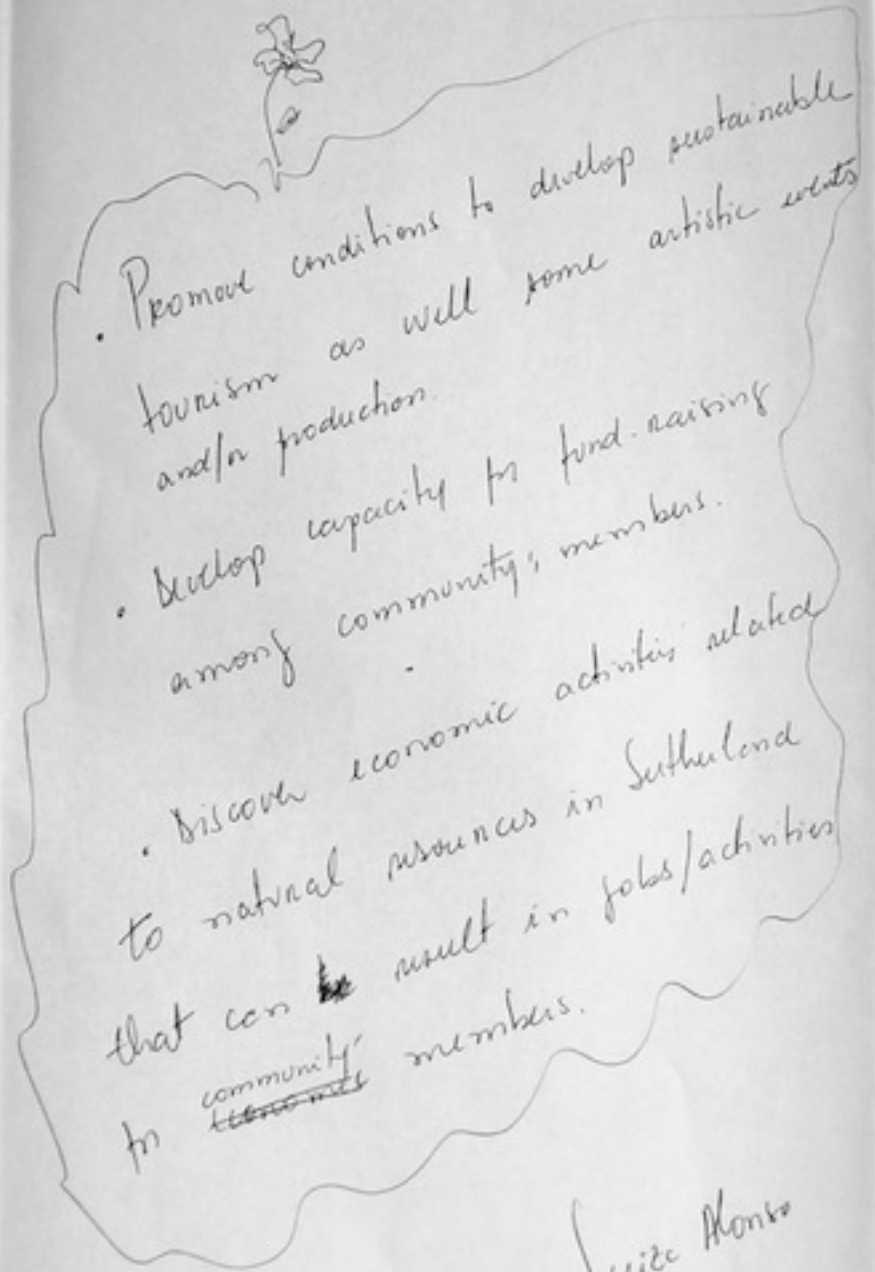


- Focus on sustainability w/ all efforts.
- Science ed. through bringing children to the labs
- Integrate community:
 - ↳ Build economic activities
 - Draw on knowledge & ecological practices.

YUSRA

(1)



- Promote conditions to develop sustainable tourism as well some artistic events and/or production.
- Develop capacity for fund-raising among community members.
- Discover economic activities related to natural resources in Sutherland that can ~~be~~ result in jobs/activities for ~~the~~ ^{community} members.

Lucie Monro

- Create a great curricula for elementary → let them be strong on science and math.
- Have a little % of all researches to go to the communities.

Catherine + Lucie

Innovative ideas /
Experience applicable

- what I liked was bringing the community closer to the observatory, literally.
- Making a space for artists and philosophers to do work related to SALT is important and makes the space ready for Transdisciplinarity.

Liz & Catherine:

A border is nothing more than a line drawn in the Earth!
It can be scraped away.

The WWII Brackonts idea is fantastic - thx Liz!

(2)

Me & my discipline

Catherine Wyn Scully
Rhetoric & Oral History
Interested in Toxic/
Nuclear Waste

My Southland idea.

As they've done in Israel, which has worked to some extent, ^{- with minorities there, to integrate} create spaces for Coloured / White youth to talk to each other, and even maybe work together someday.

Ideas from other side

Liz & Catherine

Fundraising, capacity building within the community
Natural resources, other than sky that can create sustainable jobs.
Tourism is seasonal and ways to create independence & pride.
Schooling and education about how to develop your own community where you grew up.
More than guides, imagine going scientists within such an impoverished community!
Wow, thx Liz!

BRASHWAVE

Or create a development fund?
Cw: What if there's a small (5%) levy on any research money that comes in, that goes to the community?
That's how the university tends to work with their research cost recovery.

Sydney & me

1. ask ^{population} what kind of development mutual ownership of idea

Who we are?
Idea?

3

Elizabeth JORDAN

- University prof
Education
Special Ed.

11 years as a
classroom teacher

I can discuss
this further.

Identify problem
first -
light pollution
Politically dominant
constraint.

Use concept developed during WWII in England. How can you work & move around in Blackout conditions. The use of lights had to be restricted.

- covers for headlights
- directional streetlights with covers
- light blocking curtains

But it ^(concept) needs to be developed parallel to other development.

Liz & Catherine

1. developing a combined youth community (black & white)
2. interaction with whole population including scientists

Dwiyana

left

After comparing notes with Dwiyana we came in agreement on the need to use local materials and maybe to use low energy lights which are not very bright

(4)

SYDNEY MAVENSAHAMA
(AGRICULTURALIST)

The researches also need to have their own sustainable model of development which they then compare with the local peoples and then make the best of the needs of both sides

Participatory approach to development:
It is important to ask the people about the direction in which they want development to go. The idea is to make them aware of the need for sustainability in terms of maintaining darkness whilst perhaps building modernised lit houses using low intensity lights

Elizabeth

To indicate at the beginning that the main objective of development in the area is to minimise light illumination - she indicated that during WWII lighting was a problem in Britain but there were ways to do without it and to reduce.

• Could also look at options

Premara

Using the little light possible but one needs to remember that the town will grow & the habitants need to grow as well & those development should be considered thoroughly.

Dwiyana Premadi

5

Build an "eco" tourism where hotels, restaurants etc use lights as little as possible during the night -

People can observe / go to the observatorium by horses, donkey so they don't need the car (→ their light)

→ In some area in Indonesia, people use this way of transportation to avoid using electricity & remain the darkness
→ see more beauty of the night sky -

↓ From Premara:

When the town develop, there should be an organisation to control the abuse of development -

↓ From Sydney:

The importance of education for the local habitants about the links of modernization and the remains of nature -

Sydney

Sydney's idea is about the same as Premara - as the town grow, people has the right to grow and has their own needs which would most likely to involve modernization

The awareness of the locals about the important of all this

Response

- influx of people who do not know the root of the place might erase it eventually

Diane's

- old mining town
- build new town, abandon the old one
- art projects
- history preservation
- how do they earn living & survive?

Diane Sterling

- the town & its community will inevitably grow in all aspects (it is their rights)
- But the observatory have its own requirements to be a successful astronomical facilities and scientific endeavor
- Needs to recognize possible channels to accommodate the town's growths, as not to suppress it. But how?
- P.S. I have experience in our own observatory site. (Bosscha Observatory in Lembang town, in West Java, Indonesia). (Established in 1920's, managed by Leiden Observatory, like the Capetown Observatory)

6

Premana W. Premadi

Dwijana's

- Build ecotourism
- restrictions on lighting, etc

Response:

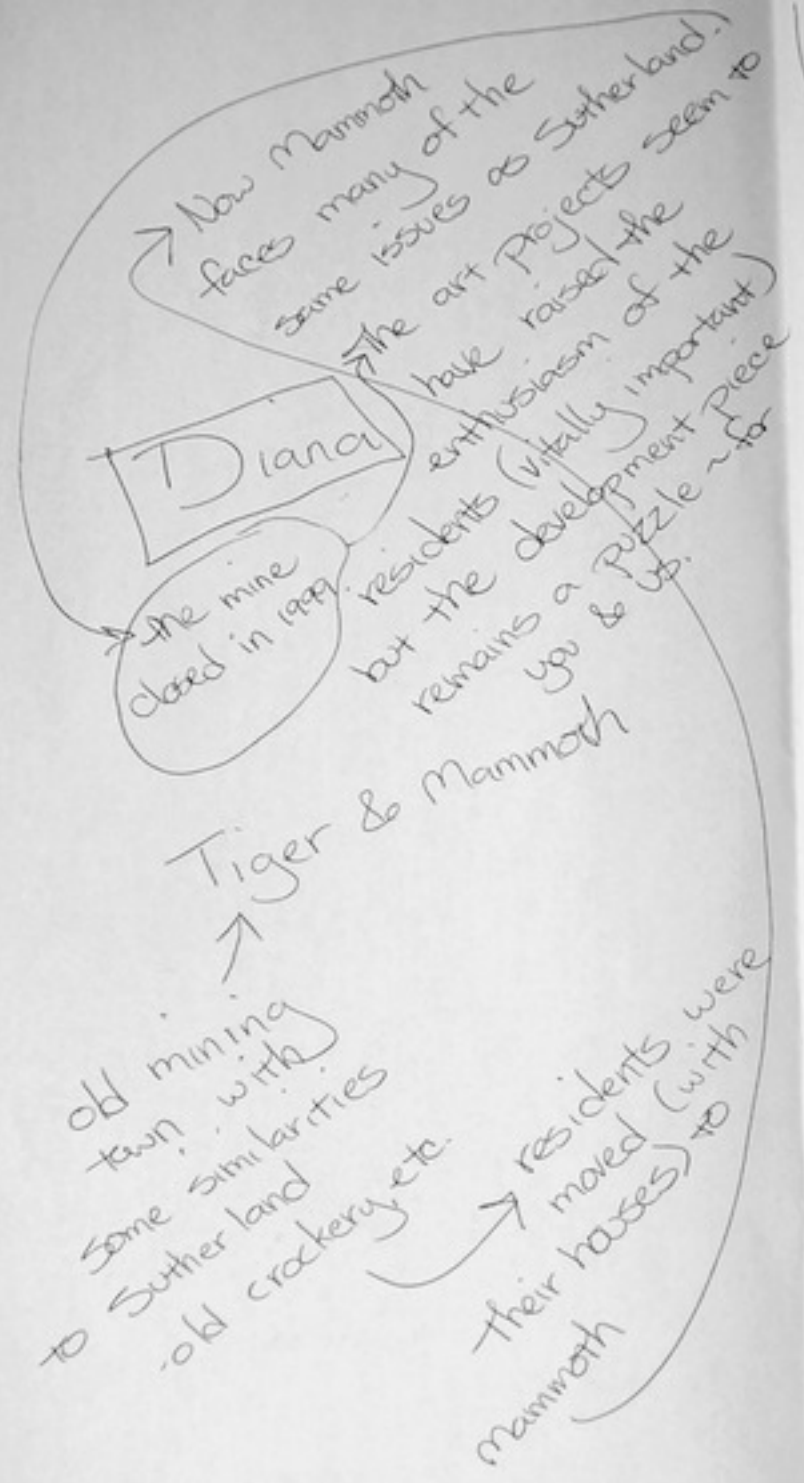
There should be an organization that controls the development

Dwijana Premadi

7

Luiza

Financial support is needed ~ how does the art address these needs? Our archeological site always struggles for funding. Who has time for fundraising when there are so many other needs?



Premana

Once the town grows, the growth needs to be channeled to the spirit of the people is involved as well as the space. here needs to be a continual dialogue between the community & the observatory. Planning is also important

WE HAVE MANY MORE QUESTIONS ☆☆☆☆

ANSWERS?

(8)

Jan Visser
Theoretical physicist &
cognitive scientist.

As influenced by
Diana's ideas is shared
with Premama & Leiza

More attention also to the
spiritual life of participating
children and adults, e.g.
through their story telling

My idea
(in addition to the wealth
of ideas present in the
presentation).



If I were present in the environment
I would dedicate myself to working
with children and adults to give
them hands-on experience of the
beauty inherent in the workings of
nature. I would use local resources
and stimulate creativity to use such
resources for creating relevant
experiences that can be shared
among the participants.

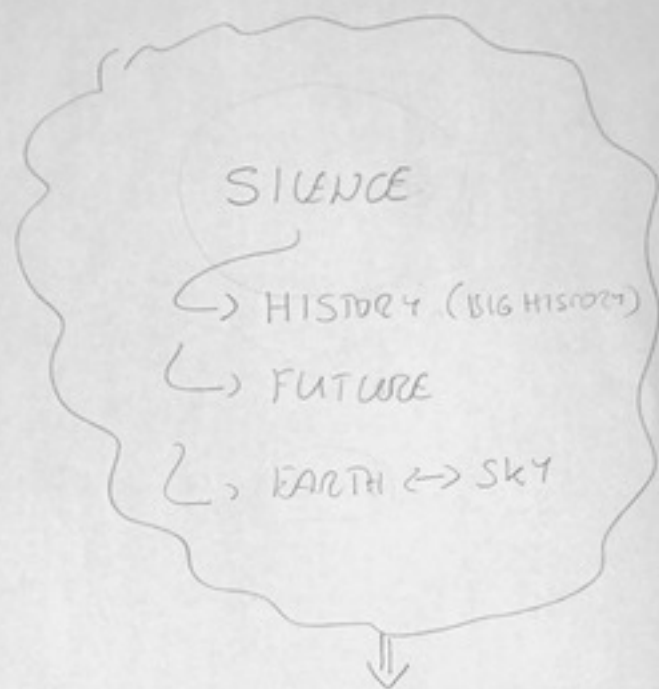
My idea is
influenced by Muriel's
idea.

I would embed my proposed
activity in the broader
context proposed by Muriel.

Understanding the workings of
nature can be linked to
the history of understanding
(i.e. of science) and related to
how people throughout history
have viewed their place in
the universe (+ on earth).

It would lead to enhanced sense
of identity and ability to
envision possible futures.

The focus of my idea is "silence", and the fact that this is probably the greatest treasure. It is part of our earth and universe. I would engage children in a project / initiative through which they use different media to document their place, and are given an opportunity to contrast this with the stories of children (and maybe visitors) from other places. This could be used to develop a vision of the future of Sutherland 20 years from now, and 200 years from now.



GET CHILDREN TO DOCUMENT
THEIR PLACE & OTHER
PLACES TO WORK ON /
UNDERSTAND VALUE OF WHAT
THEY HAVE AND THEIR
DREAMS OF WHAT IT
SHOULD / COULD BECOME

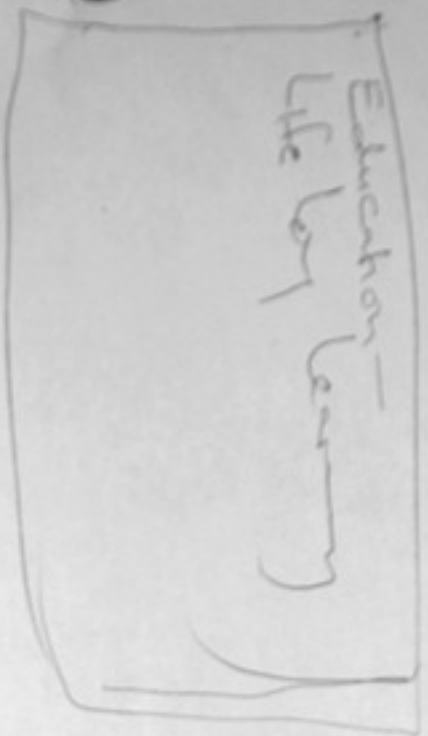
My idea influenced by
Jan Visser's ideas

Ask children and adults to
document treasures
of their place
& time



Build their vision
of the future

People Children
Education



Education with
a curriculum that
builds that requires
the learners to reflect
on their history, hear
stories, use the
integrated resources
music, Storytelling,
to create scientific
minds that ~~are~~
create copies of
stories best of
better future and future
of hope and love, tolerance
togetherness

People Children
Education

Education develops the mind so
And it is creative and capable of
generating a new future communities
that generate work employment ~~for~~

Community involvement
The Parents should be
involved at every
process of the developed
of the curriculum and
take a part chief
approach to
involvement of the
parents in their journey
Children's journey
of dreams and
goals should be
in place.

You cannot change
the child without
changing the
Community

Brigida Chilisa

Chess clubs
for children
[- to foster
thinking +
planning skills
+ cooperative
skills]

- also to foster
integration
across
communities

Dream project
- lets dream on
the together
- art, music
writing paper
involving white
& col children +
adults

10 11
Tania Verghani
Psychology /
Education /
HIPPOS

storytelling circles
to ~~cross~~ bridge
divide between
white & coloured
communities

star embroidery
project using
local women

[star doles]
[order you
purchase
star]

adopt a star
= get tourists to
donate money to a
young star's education
= young star for the
community.

Music → use music
in schools
(music - maths link)

Stephanie

shooting stars
project

- project to
link children
of Sutherland to
world outside
of Sutherland

[visit other parts of
the country →
create vision of
a greater world
outside Sutherland

- also visit to
universities etc -
vision New
five]

- help them
'dream' their
five.

Tanna

Stephane & Bob
Educators

Martin

(12)

Bring countries together
in binary Kulodasops
(Children from 2
communities collect
subjects that
represent their
country & put
them together in
Kulodasops —
so when look
through it — see
whole of both
communities

1) Children's Story
Project —

~~Features~~
Interviews

Questions & answers
newspapers - on Sutherland
sitings from 400

2) Mentors of 15+ years

3) Lectures to Sutherland
inhabitants from students
(50 yrs from now) - from
students taking their
how they brought

Sutherland back to life

4) ~~to~~ Build Kulodasops
using pictures

history from both
sides of the community

Write a Sutherland
- Song of the Stars

*Check out Shadbury
Council

Martin's idea of
what Sutherland
has to us 90's
love, wonder, ... to
offer - make available
to the society -

Spirit

Time.

A - action

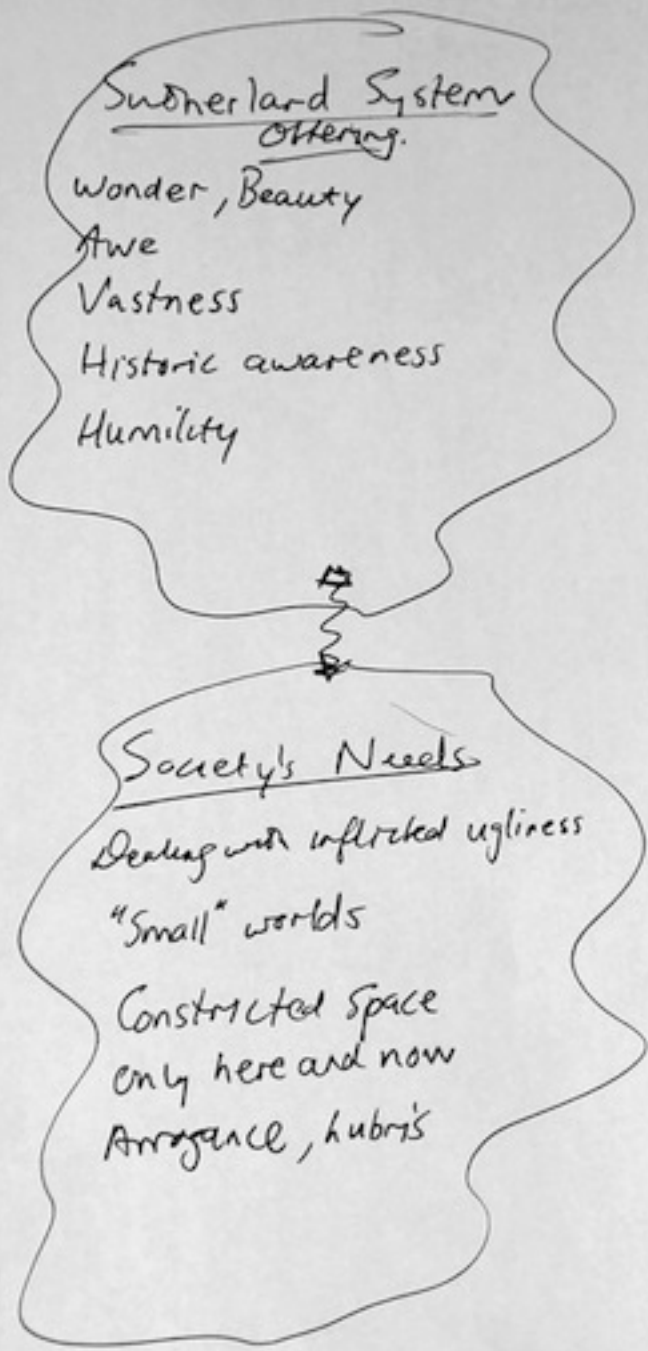
R - reflection

'Children's Story,
pictures, music on
YouTube

Stephane Marshall & Bob

- * Concrete Tourism + Commerce to link offering and need
- * Really include children into our process; story-telling on current lives and envisaged projected lives in 50 yrs
- include future awareness

Prospective from Martin de Wit
Ecological Economist (13)



Link what Switzerland can offer to what broader society is in need of.

Arthur Koh, philosopher

Switzerland can be an example of scientific responsibility.

↓
Science shows the vastness and beauty of the universe of every human being is part of. Communicating science should give people local people a sense of belonging (universal).

Paul Collier

A Socratic conversation that addresses both our and their ~~local~~ historical and cultural background.

↳ active self-involvement from our perspective to dialogue on an equal level.

14

ARTHUR KLEIN philosopher

My idea:

I would engage with the locals for a Socratic conversation to create self-consciousness and ~~set~~ better self-compre



Martin de Wit

- Key is to include previously excluded locals in what "Swissland system" can offer.
- Need unity in offering of Swissland to society
- Wounds to be healed before / within process of integrated offering

Arthur Koh

15

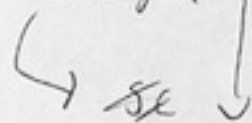
Ralph Syringh

Paul Cobben

Philosopher

Confronting the local people with the globalized community, gives an opportunity to ask the local people how they see their position in this globalized community

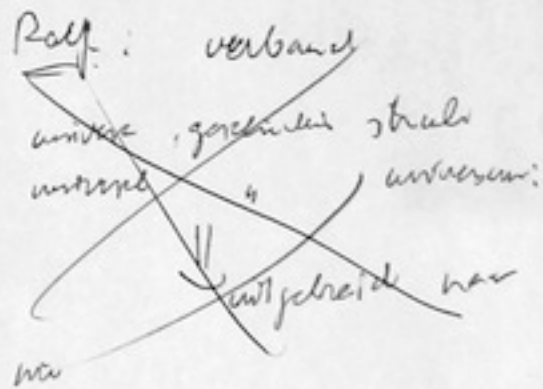
Making use of the international community the ~~via~~ visits the telescope.



let them design scheduling programs

=> developing

Ralph: relation local (universal) history tied to universals: extended to other universal dimensions: namely: the dimension of the globalized society



16

(Paul Collier)

International
community visiting
observatory adds
the element of
"universal" history
in the sense of
"history of the earth".

16

RALF SYRING

HIV prevention and
care DR Congo

Connection between
universal and
human history

(Fanie Joubert)

~~Fanie~~

An element of the
present added through
thinking of how to
attract other people
to the place and
how they can be part
of that history

RALF

connecting
past + present
vastness of universe
vs. "small" human

17

ME AND MYSELF

FAME

ECONOMICS

SUTHERLAND = (1.0) coldest place
in SA.

stars + cold = ?

① winter-warmers + "stars" concert

② 4x4 routes ?

③ MTB night race.

VISIBLY

Scientific - art - centre

(music)

- Night time "concert"

- Musicians not to use
lights (or way instead of
holopad)

- challenge for both musicians
people listening

FANIE
JOUBERT

- Collection and
Generation of digital
objects with general
people

and digital out object
as podcast or photos

(18)

Vasily Burov

educations, collaborations
technologies, Democracy 2.0

get knowledges on
participations
and scientific view for
sustainability
wise 1:1 model of
computers for students

(Individual IT's)

DAT
CRISTOFATE

Can into Democracy
2.0 technologies
integrate information
about the problems of
social
people and searches the
best solution for they

Versily Burov

IT
individual

can
about
health
tech
for
equity

Social
networking
problem solving

IT will FACILITATE
GOALS
OW THE
OTHER
PAGES

Sethel L
PAT CRISTOFARO
Physician

What health
interventions
could be
introduced
for the
children?

Vaccinations
Pre-post natal
care

Adjuvant
medicine
HIV
prevents
CLINIC OR
HOME
VISIT

19
WINSTON

Christine
Matal

Added
nutrition

Food production

* Economic development
→ ECO-TRADING

Networks
Family / migration

Religion →
Religion →
activity
WATER
MANAGEMENT
IMPLEMENTATION

Pat

I share & change

left

basic health services for the community

school / learning development?

mobility of this community? migration? are they leaving? what are their networks in SA and beyond, family based or other ones?

religious communities? parish or other structures? (Zoroaster!)

hunting? bird catching? watching?

Christie M Merlat (+1955)
historian / psychologists / international relations

ME AND MY DISCIPLINE

(what is the nutrition picture)

desert apt? solar power dark shades
in one generation? cattle herding? plants? water systems

(philosopher's café for the kids)

farming? gardening?
IT work [transnational services] game design

MY SUTHERLAND

IDEAS + QUESTIONS

dark & silence distance education

do a writer's school
offer PhD retreat day light rhythm

desert travel tours for "meditation" hikers (semi-) link up with other desert people (Tuareg) (Central Asia)

very speedy / energetic / "aggressive" plays / games for young men marriage / family ops

Mike

II share & change

right neighbor

Singing together as a group in day and as a night the [compare the Icelandic music tradition]

Science education → "cognitive" "knowled" connect

do a maps resource mapping with all people in this community → what are resources at hand / within reach "perceived" resource

electricity? situation?

might the book & DVD club

how did people live in the 18th ct area? is there something to be learned / reach / transformed? generational pattern? middle aged? testosterone teens

dark shades for a community club

Paul Webb

Combine discussion
of the scientific
things that can be
observed with the
singing. At a low level
of detail, but adding
to understanding of
what is being honored.

M. Gardner
Brown Univ. USA. 21
Music + Learning

Develop opportunities
to sing together
as a community
during day
and at night

Sing about the
experience. Invent
songs about the
experience.

Publish songs about
experience

Whole community
+
kids

singing to honor
experience and
build it.

Build community Meeting

Christine
Art meeting times
& discuss

What can
we bring, what are
resources. Practical
questions.

Talk about
opportunities +
discuss them at
these meeting times.

like a
vermont town
meeting.

Left
Truda

Explore white community
in town & see what
they could possibly
contribute to the
program.

Paul Wells

Science Education, WMMU

You have the opportunity
to improve education
in the schools - particularly

Science, Math, & general
literacy

- general resources are
available but Astronomy
can form a link
and the 'telescope' / observation
can ^{possibly} provide expertise,
ideas, facilities,
etc.

22

Right
Martin

Encourage the sci/math/art
experiences with music -
write songs, sing, etc

Expand opportunities
to whole community

Family Math
" Science
" etc. ^{music}

Joy Swart

Left

Develop Quitting initiative
 Craft or embroidery for
 women's jobs - build
 craft; use local wool
 for craft.
 - Sell to visitor
 - Export using SALT
 label as brand.

Books about storytelling from
 other Dutch-speaking countries
 - how heavens are perceived
 in poetry & literature
 Literature centre about
 stars in literature and
 songs, music

Life art festival (music
 + poetry) in daytime
 focus on painting + art
 arts, music

Invite painters, song-
 writers to reflect
 use objects to foster
 creativity

Row 1

Stars & Sky as
 theme for designs
 (Learn from Mapula)

2/3

Truida Prekel
 Innovation +
 Creativity

My Sutherland Idea

- Use concepts + Colour from Hundertwasser
- Also draw on weather in white community - combine with coloured community
- Van Wyk Louw, Karoo Land, Beautiful church - use Afrikaans 2 Build community
- Use winter, cold as a feature for tourism
- Develop daytime activities - music fest with David Kramer

Right Paul Webb

Get facilitator 2
 build bridges betw
 communities

Include music & arts
 in curriculum with
 science or math.

Get @ work @ SALT
 2 do community
 work by teaching
 math + science

(24)

80% ^{Japan SWAN} unemployment

- start astronomy toy industry

- kids weekends
camping camps
with
excursions

- set up a planetarium!

- create a museum for astronomy with a.o.

- what is done elsewhere in Other countries
terms of astronomical activities

- balloon travel bags

wedding industry
wedding site → feeling
to Heaven!!

Chapel
bridal suite
hotel

KARLO
~~Ergen Patarakin~~

- Wiki
- Scratch language
- Summer camp
- 1:1 DLPC project

Summer camp
game

Ergen

Summer
Astronomy
Camps
in a different countries
which are use
telescopes

Yaprak

25

Summer camp with
balloons and see the
Planet from the
sky
and travelling from
one camp to another

Turn games into proper didactic materials and disseminate them nationwide, contributing to sustainable development (possibilities: teachers training; production of the actual games; etc.) and enhancing education

CARLO FABRICATORE

(CAREING. WHATEVER THAT MEANS... :))

- Let children create games on "stars"
- Have adults play their games with them

Note: "Games" in this context should be analog; tabletop products.

SUMMER CAMP.

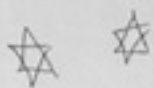
PLAYING WITH THE STARS

- Learn about stars using the resources
- Create games
- Play games

Influence from:
Luisa

Promote financial support for
the sustainability of the
activities:

- ① develop fund-raising capabilities among community members;
- ② jobs based on natural resources;
- ③ tourism as part of the "basket".



- Involve the youngest children in the telescope laboratory
↳ Raise awareness of its role
- Increase quality of Science Education in the community (interest)
- Discuss with community re: traditional practices for ecologically sound tourism development.

Influence from:
Carlo Fabricatore

Building a Game and Summer camps, involve the community + promote economic development by

- Having community members assist in planning, implementing weekend and summer camps, ~~social science~~ which focus on the use of games and game/activity based strategies to promote:

- ① science learning
- ② ecological awareness
- ③ economic development