

Terraforming Pilot at CERN Ideasquare

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome to IdeaSquare and CERN

Monday 8 May 2023 09:30 (1 hour)

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: 2

Type: **not specified**

Introduction to Design Innovation processes and to Terraforming

Monday 8 May 2023 10:30 (2 hours)

Different innovation processes, why regular methods are not enough for radical change;
Story behind the concept of Terraforming;
What are the expectations for the week?

Presenters: BATISTA, Catarina (Helsinki University of Technology (FI)); THONG, Christine

Contribution ID: 3

Type: **not specified**

Materials for travel

Monday 8 May 2023 15:00 (2 hours)

Overall picture of what materials you want to import (fulfilling basic human needs, ensuring long term continuity of the settlement) to Planet X.

People and skills that are needed for the mission to your chosen planet.

Presenters: BATISTA, Catarina (Helsinki University of Technology (FI)); WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: 4

Type: **not specified**

Cultivating a Growth Mindset

Presenters: BATISTA, Catarina (Helsinki University of Technology (FI)); MULLER, Romain

Contribution ID: 5

Type: **not specified**

Knowledge Transfer - Technology & How to talk to CERNies

Presenter: ANDREASSEN, Lars Erik Haukedal (Norwegian University of Science and Technology (NTNU) (NO))

Contribution ID: 6

Type: **not specified**

Collaborative Mindset: unlocking team potential.

Setting goals, sharing hopes and fears and establishing team expectations

Presenter: DOWN, Aaron Michael

Contribution ID: 7

Type: **not specified**

Inspirational - talk by Markus Nordberg

Tuesday 9 May 2023 09:30 (1h 30m)

Awe inspiring, exponential, zooming out, daring, reconsidering assumptions, cool crazy scientist guy

Presenter: NORDBERG, Markus (CERN)

Contribution ID: 8

Type: **not specified**

Why are we here? Talk by Markus Nordberg

Presenter: NORDBERG, Markus (CERN)

Contribution ID: 9

Type: **not specified**

Tour at CERN: Antimatter Factory (TBC)

Tuesday 9 May 2023 13:30 (1h 30m)

Contribution ID: **10**

Type: **not specified**

Finalise materials

Tuesday 9 May 2023 11:00 (1 hour)

Finalise decisions on what to take with you - people and materials

Contribution ID: **11**

Type: **not specified**

Reflection & Feedback

Tuesday 9 May 2023 16:30 (30 minutes)

Reflection and Information for tomorrow

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: **12**

Type: **not specified**

Expose bias test

Experiment with tricky questions

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: **13**

Type: **not specified**

Decolonizing design talk

Wednesday 10 May 2023 09:30 (2 hours)

Presenter: JÄGER, Thomas

Contribution ID: 14

Type: **not specified**

Create a society

Wednesday 10 May 2023 11:30 (3 hours)

What form will your society take?

What are the fundamental rights?

What are the things required from settlers?

What can settlers expect from the society?

How do you define equality?

Who has right to water / who is responsible of there being water / maintaining the system / how are violations prevented etc.

Presenters: ZIMMERMANN, Dina Longva (Helsinki University of Technology (FI)); WIRTAVUORI, Laura (Helsinki University of Technology (FI)); NORDBERG, Markus (CERN); GARCIA TELLO, Pablo (CERN)

Contribution ID: 15

Type: **not specified**

Session: Think about the water system, first understanding the context and brainstorming session

Wednesday 10 May 2023 14:30 (2 hours)

Designing the water system / mapping stakeholders, resources and impacts around the water system - the general way in which the system should function

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: **16**

Type: **not specified**

Going deeper underground: CMS Visit (postponed)

Tour from 17:00 - 18:00, bus leaves IdeaSquare at 16:15

Session Classification: Presentation techniques

Contribution ID: 17

Type: **not specified**

Teaching team meeting

Contribution ID: **18**

Type: **not specified**

CLOUD tour (TBC)

Thursday 11 May 2023 09:00 (1h 30m)

Contribution ID: **19**

Type: **not specified**

Coming back to Earth

Monday 15 May 2023 09:30 (3 hours)

Where are you landing? What are the mismatches, tensions between the two planets and their societies? Document your understanding of the problems.

Map of stakeholders, resources, impacts and highlighting the tensions between the two planets and societies.

Presenters: FARIA, Carolina; BATISTA, Catarina (Helsinki University of Technology (FI))

Contribution ID: 20

Type: **not specified**

Ideation session 5: technology card inspiration

Contribution ID: 21

Type: **not specified**

Energiser "CERN Slam - Drop the Particle"

Contribution ID: 22

Type: **not specified**

Idea development and preparation for pop-up

Contribution ID: 23

Type: **not specified**

R1 Pop-Up: CERN scientists / stakeholders & feedback on selection of ideas

Contribution ID: 24

Type: **not specified**

Finish, reflect, information for tomorrow

Contribution ID: 25

Type: **not specified**

Teaching Team Meeting

Contribution ID: 26

Type: **not specified**

Warm-up & instructions for the day

Contribution ID: 27

Type: **not specified**

Ideation Session 7: Team Switches, Facilitated Ideation

Contribution ID: 28

Type: **not specified**

Ideation Session: Future Scenarios

Contribution ID: 29

Type: **not specified**

going deep underground: CMS visit

Contribution ID: **30**

Type: **not specified**

Idea development and preparation for pop-up

Contribution ID: 31

Type: **not specified**

Reflect & information for tomorrow

Contribution ID: **32**

Type: **not specified**

Teaching team meeting

Contribution ID: 33

Type: **not specified**

Arrive and instructions

Contribution ID: **34**

Type: **not specified**

Planet-Centric Design

Bringing your learnings back to Earth

Presenter: FARIA, Carol

Contribution ID: 35

Type: **not specified**

Ideation Session 8: On demand (teams choose their starting point)

Contribution ID: 36

Type: **not specified**

Present outcomes & Reflection

Contribution ID: 37

Type: **not specified**

Public transport to Palace of Nations, Geneva

Contribution ID: **38**

Type: **not specified**

UN Walk around & SDG 2030 Presentation

It is super important to arrive at 10:00am!

Entry through UN securing takes 30 minutes.

Tour starts at 10:30

Presenter: TAYLOR, Kali (SDG Lab)

Contribution ID: 39

Type: **not specified**

Post-lunch Warm-up

Contribution ID: **40**

Type: **not specified**

Idea Generation Session 9: Team Switch

Contribution ID: 41

Type: **not specified**

Teaching team meeting

Contribution ID: 42

Type: **not specified**

Warm-up & Instructions for the Day

Contribution ID: 43

Type: **not specified**

Team Dynamics check-in

Contribution ID: 44

Type: **not specified**

Guided Idea session

Presenter: GARCIA TELLO, Pablo (CERN)

Contribution ID: 45

Type: **not specified**

Move to Innovation

Presenter: MULLER, Romain

Contribution ID: 46

Type: **not specified**

Teaching team meeting

Contribution ID: 47

Type: **not specified**

Warm-up & Instructions for the Day

Session Classification: CBI A3 community breakfast

Contribution ID: 48

Type: **not specified**

Calculating net impact by Pablo Garcia Tello

Presenter: GARCIA TELLO, Pablo (CERN)

Session Classification: Calculating net impact by Pablo Garcia Tello

Contribution ID: 49

Type: **not specified**

CBIngo

meet and welcome students from CBI Barcelona (they will be working in containers, CBI A3 will continue to work in the open space

Contribution ID: 50

Type: **not specified**

Finish, reflect, information for tomorrow

Contribution ID: 51

Type: **not specified**

Teaching Team Meeting

Contribution ID: 52

Type: **not specified**

Warm-up

Thursday 18 May 2023 10:00 (30 minutes)

Contribution ID: 53

Type: **not specified**

Prototyping and preparing final deliverables

Thursday 18 May 2023 10:30 (5h 30m)

Contribution ID: 54

Type: **not specified**

Team preparation

Contribution ID: 55

Type: **not specified**

Presentations and Feedback

Contribution ID: 56

Type: **not specified**

Breakfast at IdeaSquare

Contribution ID: 57

Type: **not specified**

Warm-up

Friday 19 May 2023 10:00 (25 minutes)

Contribution ID: 58

Type: **not specified**

Reflection paper instructions + documenting + clean up

Friday 19 May 2023 13:30 (1 hour)

Encapsulating deliverables and learnings to take home.

Translating the experience into something valuable to your professional and academic career.

Questionnaires from Catarina and Jimmy.

Contribution ID: 59

Type: **not specified**

Discussion on material and people choices

Tuesday 9 May 2023 15:00 (1h 30m)

Did our plan work?

What are the consequences?

Do we want to iterate our decisions?

Presenters: BATISTA, Catarina (Helsinki University of Technology (FI)); WIRTAVUORI, Laura (Helsinki University of Technology (FI)); NORDBERG, Markus (CERN); GARCIA TELLO, Pablo (CERN)

Contribution ID: **60**

Type: **not specified**

Last Idea Divergence Session

Contribution ID: **61**

Type: **not specified**

Design the next Terraforming pilot!

Friday 19 May 2023 14:30 (1h 30m)

Contribution ID: **62**

Type: **not specified**

Team preparation

Contribution ID: 63

Type: **not specified**

PD3 - a mini-hack session, further developing 1 x existing idea

Contribution ID: **64**

Type: **not specified**

Idea 3 - development session

Contribution ID: 65

Type: **not specified**

Idea 1 - development session

Contribution ID: **66**

Type: **not specified**

Idea napkin review continued

identify 3 x ideas to spend more time developing

Contribution ID: 67

Type: **not specified**

Idea 2 - development session

Contribution ID: **68**

Type: **not specified**

Optional - R1 pop-up

Contribution ID: **69**

Type: **not specified**

Team Canvas

Presenter: THONG, Christine

Contribution ID: 70

Type: **not specified**

From HMW to POV

Contribution ID: 71

Type: **not specified**

Unpacking the Tech

Contribution ID: 72

Type: **not specified**

Explore further your ideas for the water system with Pablo

At least 5 different more refined ideas on what your water system would be like

Presenter: GARCIA TELLO, Pablo (CERN)

Contribution ID: 73

Type: **not specified**

Prototyping for radical change

Session Classification: Ideation Session: SDG's and What If

Contribution ID: 74

Type: **not specified**

Prototyping talk by Dina Zimmermann

Thursday 11 May 2023 14:30 (1 hour)

Introducing prototyping: why, how, what, and when to prototype. Here it is not to test functionality, but rather to communicate and visualise the system and based on that refine the idea. “Table top prototype” Idea is most likely to prototype a system.

Presenter: ZIMMERMANN, Dina Longva (Helsinki University of Technology (FI))

Contribution ID: 75

Type: **not specified**

Prototype water solutions

Thursday 11 May 2023 15:30 (1 hour)

As the goal of this prototyping exercise is to visualize and communicate and to help you to understand your own ideas better, we are hoping to see several prototypes. Your final prototype on Friday can be entirely built on Friday, and you do not even need to have just one final prototype, it can be several.

Presenters: BATISTA, Catarina (Helsinki University of Technology (FI)); ZIMMERMANN, Dina Longva (Helsinki University of Technology (FI)); WIRTAVUORI, Laura (Helsinki University of Technology (FI)); WERNER, Ole Anton

Contribution ID: 76

Type: **not specified**

Prototype water solution

Friday 12 May 2023 09:30 (2h 30m)

Contribution ID: 77

Type: **not specified**

Future Scenarios and Team Switches

Presenter: THONG, Christine

Contribution ID: 78

Type: **not specified**

Cultivating a Growth Mindset: Checking in

Presenter: BATISTA, Catarina (Helsinki University of Technology (FI))

Contribution ID: 79

Type: **not specified**

Presentations + considerations

Presenter: THONG, Christine

Session Classification: Open space to explore ideas

Contribution ID: **80**

Type: **not specified**

Checking ideas with Pablo

Thursday 11 May 2023 12:30 (1 hour)

Pablo will be coming to work with the two teams to discuss the impacts of these solutions

Presenter: GARCIA TELLO, Pablo (CERN)

Contribution ID: **81**

Type: **not specified**

Presentations and feedback

Friday 12 May 2023 13:30 (1 hour)

Contribution ID: **82**

Type: **not specified**

Iteration based on feedback

Friday 12 May 2023 14:30 (2 hours)

Contribution ID: 83

Type: **not specified**

World cafe: Learnings from your mission

Monday 15 May 2023 13:30 (2h 30m)

Compare planet X and planet Earth.
Extract principles from the differences.
Sharing in rotation with the other teams.

E.g: "In planet X the water system was so much better because there was an equitable distribution of resources"

Presenter: BATISTA, Catarina (Helsinki University of Technology (FI))

Contribution ID: **84**

Type: **not specified**

Group picture and goodbye to IdeaSquare

Friday 19 May 2023 16:00 (25 minutes)

Contribution ID: 85

Type: **not specified**

Intro to expectations for final presentation

Prepare a booth to showcase your concept (low-fi/paper prototyping when decorating the booth and yourselves)

No slides: show, don't tell: role playing, etc.

Description of the scenario/context where this solution will exist

Show your solution prototype

Problem you are solving

Expected impact of solution

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: 86

Type: **not specified**

Preparing for travel

Monday 8 May 2023 14:00 (1 hour)

Why are we leaving planet Earth?

Where are we going?

Introduction to first challenge: Establish a sustainable water system for your settlement.

Presenter: WIRTAVUORI, Laura (Helsinki University of Technology (FI))

Contribution ID: 87

Type: **not specified**

Fondue Friday (FF)

Friday 12 May 2023 17:00 (5 hours)

Contribution ID: **88**

Type: **not specified**

Discussion on lunch with strangers

Contribution ID: 89

Type: **not specified**

Optional: Discussion on Dark Matter with PhD students from Australia

Wednesday 17 May 2023 17:00 (1 hour)

Contribution ID: **90**

Type: **not specified**

Market Principles to be transformed

Contribution ID: **91**

Type: **not specified**

First ideation session on water system

Thursday 11 May 2023 10:30 (2 hours)

Come up with at least ten different ideas

Contribution ID: **92**

Type: **not specified**

All hands on deck!

Wednesday 17 May 2023 09:30 (1h 45m)

Ideation and Prototyping!

Contribution ID: 93

Type: **not specified**

Introduction to final mission

Wednesday 17 May 2023 14:00 (20 minutes)

Contribution ID: **94**

Type: **not specified**

Polishing up

Friday 19 May 2023 10:25 (30 minutes)