

GENEVA
INNOVATION
MOVEMENT

CERN Workshop on Digital Skills
January 19, 2023



Agenda

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Why: Background and Goals

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Who: Who is in the room; Who are our hosts

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What: What's going to happen today

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How: How do we move this pilot forward – questions to think about for the debrief:

- How did this experiment reveal different thinking patterns and ways of working in your pair? Is there something we can generalize?
- How would the outcome have been different if you had done this on your own? Not in a team? In light of this experiment, which skills and tools do you need to manage digital transformation in your respective teams?
- What knowledge do you need to make your organization and your team successful in further digital transformation endeavours?

Why: Background and Goals

- **Outcome of knowledge sharing circle:**
 - a. Basic coding skills can be beneficial for **rapid prototyping** – CERN has developed a basic coding workshop for Masters students with no prior technology experience – this could be extended to our network and community.
 - b. Rapid prototyping can also help organizations learn about foresight and test certain assumption about what certain technology can do and how
- **Digital skills are like learning another language – bringing the non-tech person closer to tech**
 - Senior managers do not need to know how to code but they need to be able to understand the basic philosophy behind it and to be able to convey their ideas in an understandable fashion to those who can then execute them as well as to understand the limitations of the technology.
- **Workshop in pairs for learning from one another**
 - Inspired by the collaborative team approach used at CERN for addressing scientific and technical challenges, you will be working in pairs with your colleague to build a “detector proxy” device. The closest we can get to a particle detector in the short time we’ll have, is to construct and code a motion sensitive home burglar alarm from scratch as a learning vignette. It will be a simple Arduino kit.



Who is in the room and Who are our Hosts



IdeaSquare

Participants (manager role + IT role):

- Thomas Neufing + Sandro Dessi (UNOG)
- Adriana de Oro + Muhammad Yakubu (ITC)
- Nigel Gan + Alexandre Allouin (UNAIDS)
- Tina Ambos + Markus Meierer (UNIGE)
- Carol Fuzzard + Dima Kondratev (Constructor)
- Elina Viitamieni + Anne-Liis Sääne-Sáez (CancerSupport)
- Iris Dieleman + Katya Tatarinov (GIM)

Around the Room:

Thinking about the world where digital technology has fully permeated, what are the Greatest threats and greatest opportunities for your work?

What: Agenda for the Workshop today



Digital Skills Workshop: Building a movement detection alarm (as a TDAQ proxy) - 19 Jan 2023 - 19 Jan 2023, CERN.

Daily Programme: Thursday, 19 January 2023

Break: Arriving to IdeaSquare, Coffee

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Contribution: Why are we here? Setting the scene

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Presenter: Iris Dieleman

Contribution: Introduction to CERN, ATLAS TDAQ and IdeaSquare

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Presenter: Markus Nordberg

Contribution: Introduction to the exercise and goals

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Presenter: Dina Longva Zimmermann

Contribution: Building the hardware

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Break: Coffee break

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Contribution: Testing and running the code

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Contribution: Take-aways & Conclusions

Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

Presenters: Iris Dieleman; Katherine Tatarinov; Tina Ambros

Break: Sandwich lunch

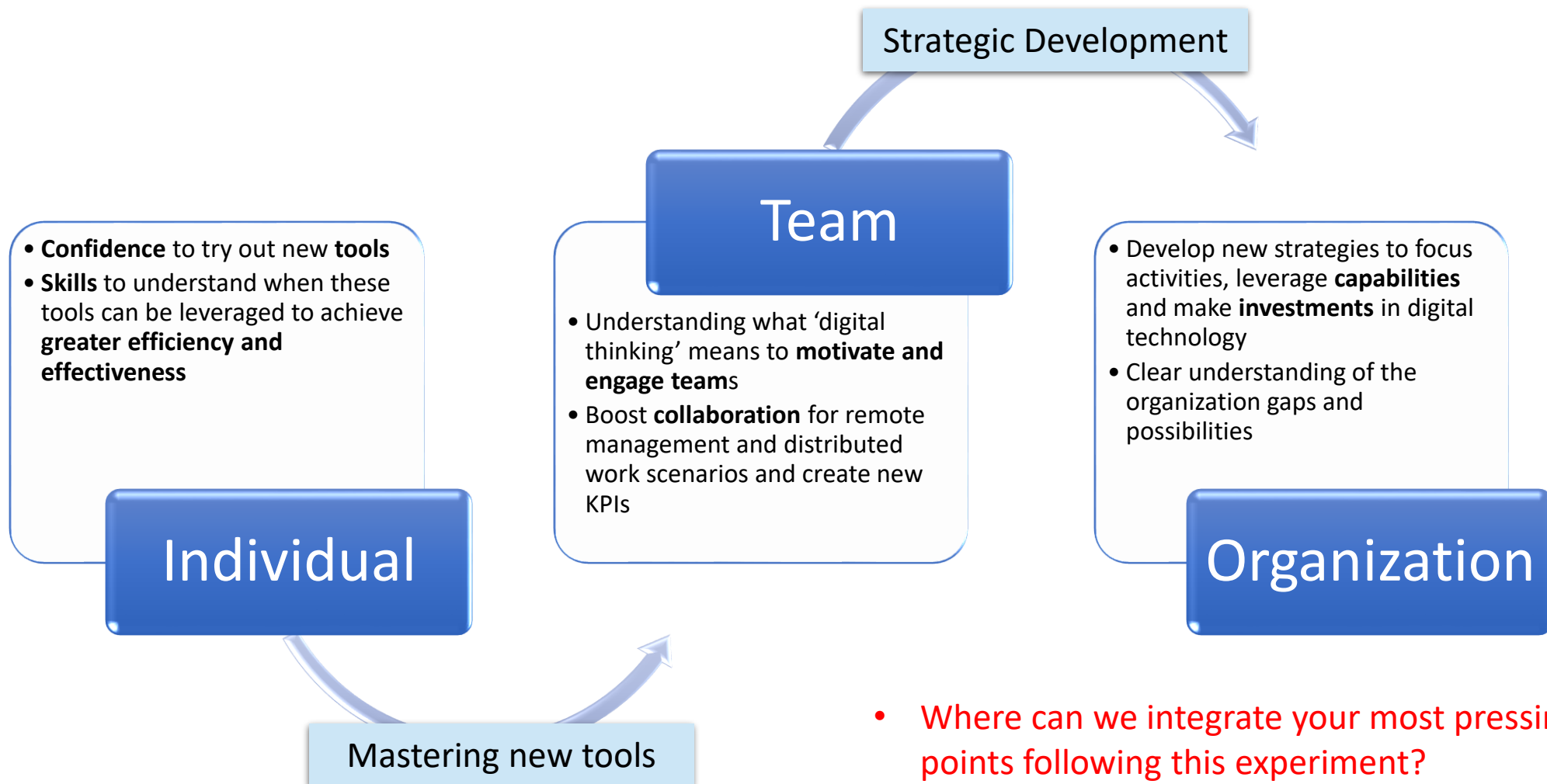
Time and Place: 3179/1-D06 (19 Jan 2023 - 19 Jan 2023)

How: How do we move this pilot forward

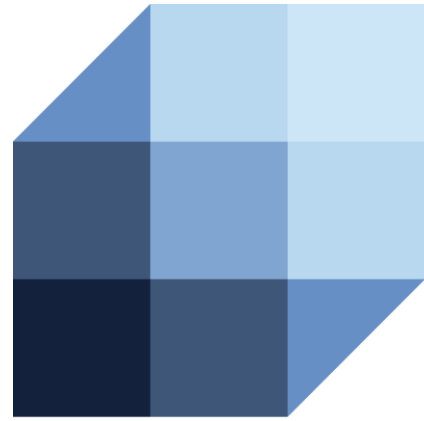
Moderated by Tina Ambos and Markus Nordberg:

- How did this experiment reveal different thinking patterns and ways of working in your pair? Is there something we can generalize?
- How would the outcome have been different if you had done this on your own? Not in a team? In light of this experiment, which skills and tools do you need to manage digital transformation in your respective teams?
- What knowledge do you need to make your organization and your team successful in further digital transformation endeavours?
- How can I, in my organization, contribute to delivering similar experiences for collective learning in the ecosystem?

How: to apply this in my organization



- Where can we integrate your most pressing agenda points following this experiment?



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Thank you!