Applied Innovation Lab

So what is that again...?

Professor Christine Thong





increase societal impact + reach of CDM (assist objective g)



increase societal impact + reach of CDM (assist objective g)

- Translation ideas
- build innovation skills + capacity







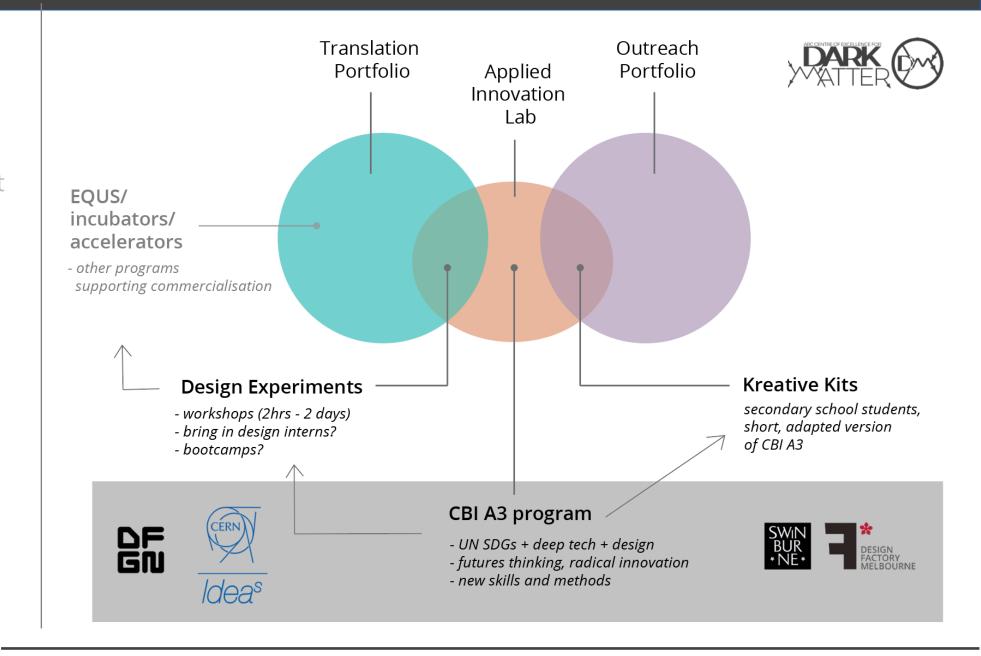
increase societal impact + reach of CDM (assist objective g)

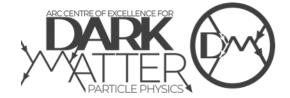
- Translation ideas
- build innovation skills + capacity



increase societal impact+ reach of CDM(assist objective g)

- Translation ideas
- build Innovation
 Skills + capacity





Humancentred design

Embrace

- Incubator for babies
- Affordable ~\$25 USD,
- Developed by students at Stanford University





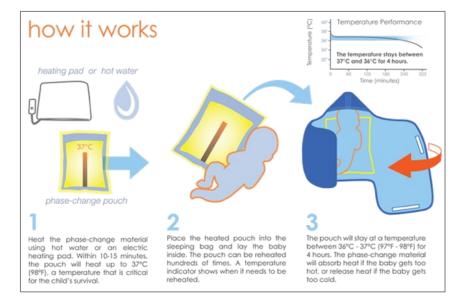






Image sources:

http://cargocollective.com/futurehealth/Embrace-Infant-Warmer https://www.fastcompany.com/1685394/embrace-infant-warmer-gets-its-first-test-baby https://heymama.co/embrace-innovations-jane-chen/

Humancentred design







Plywood Prototype



Semi-resolved



Proof of Concept



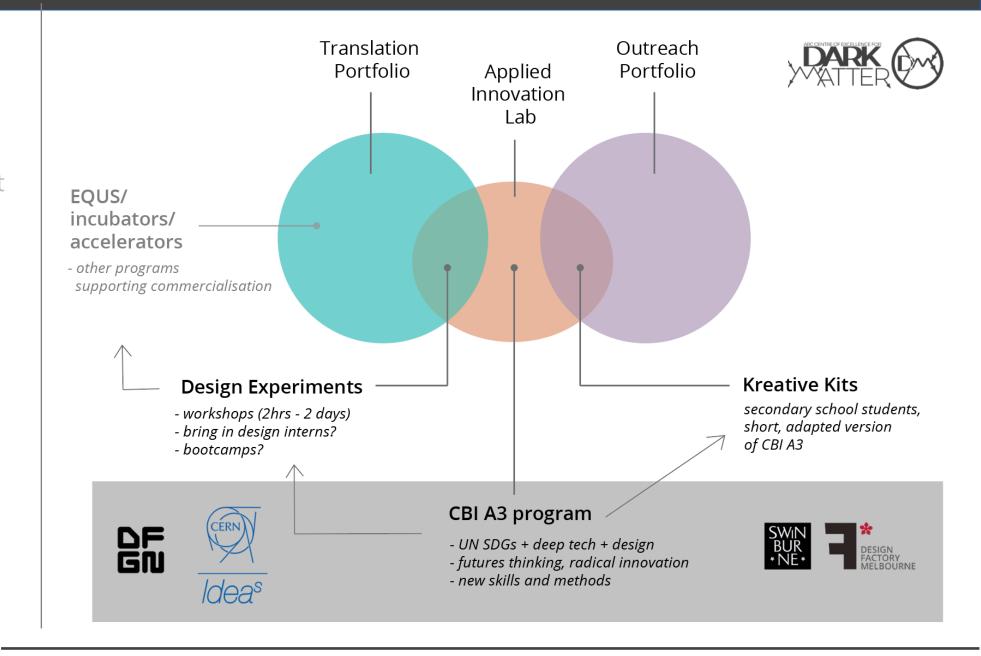


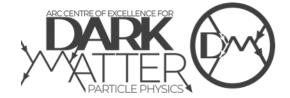




increase societal impact+ reach of CDM(assist objective g)

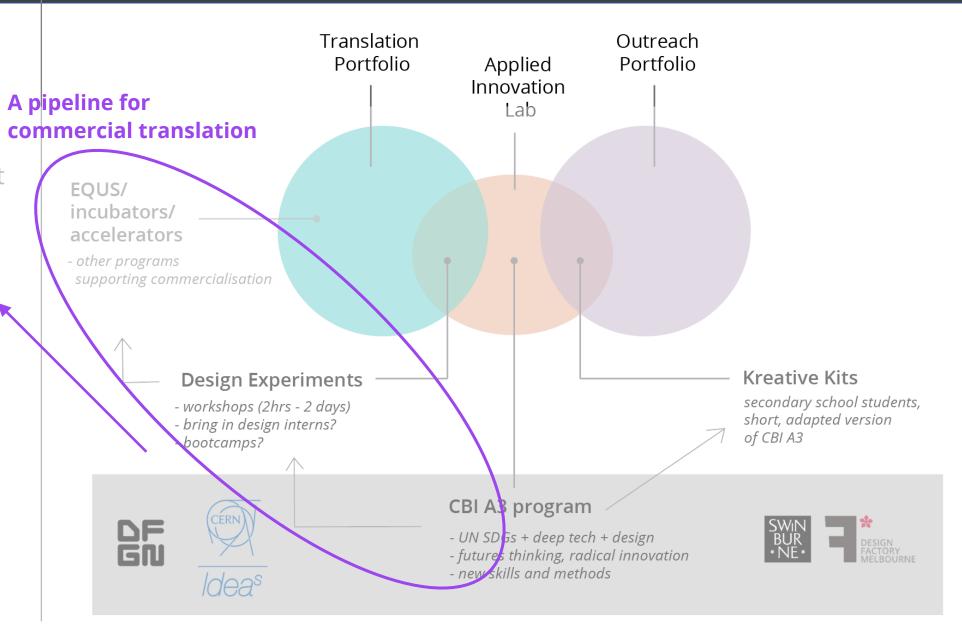
- Translation ideas
- build Innovation
 Skills + capacity

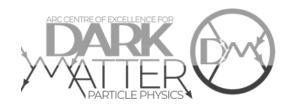




increase societal impact+ reach of CDM(assist objective g)

- Translation ideas
- build Innovation
 Skills + capacity



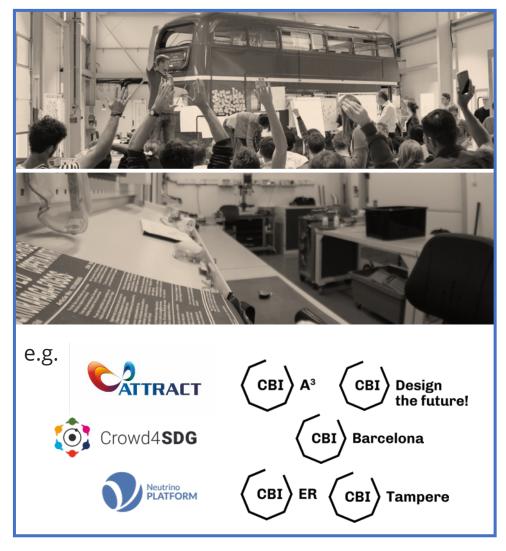


DF DESIGN FACTORY GIUGIAL NETWORK

(PHYSICAL INNOVATION LABS)











Medipix technology

Read-out chip for particle imaging and detecting

(+ other technologies)

Outcome:

- Demonstrate technology potential
- Early-stage idea
- exploration





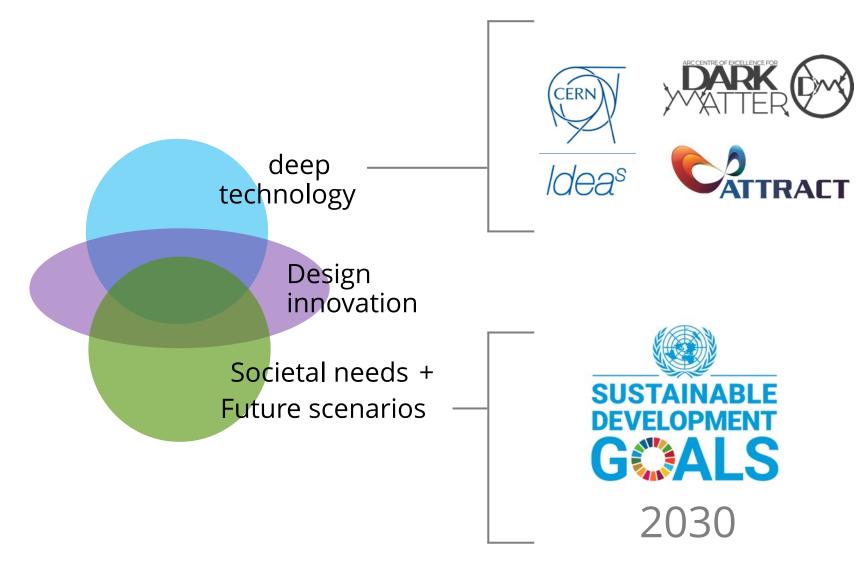


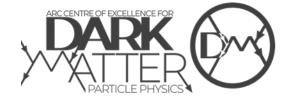
Airport scanning system for illicit and/or biohazardous substances





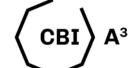
Challenge Based Innovation Program









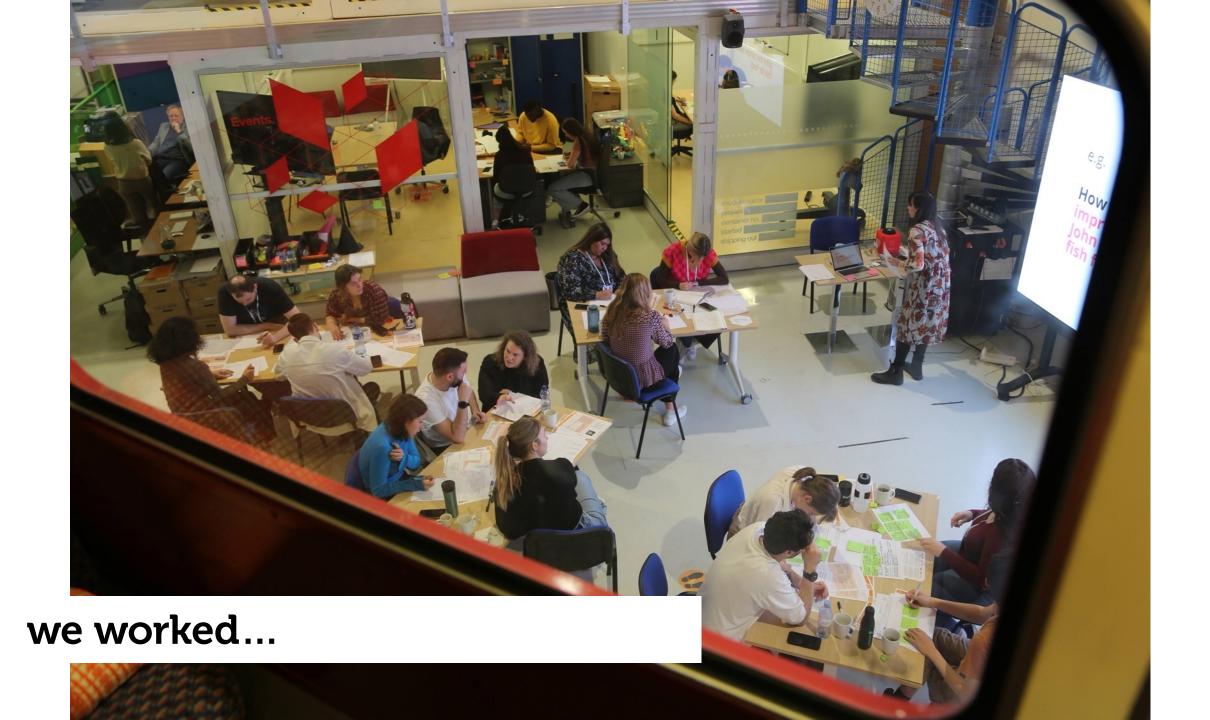
















Quick prototypes to demonstrate ideas











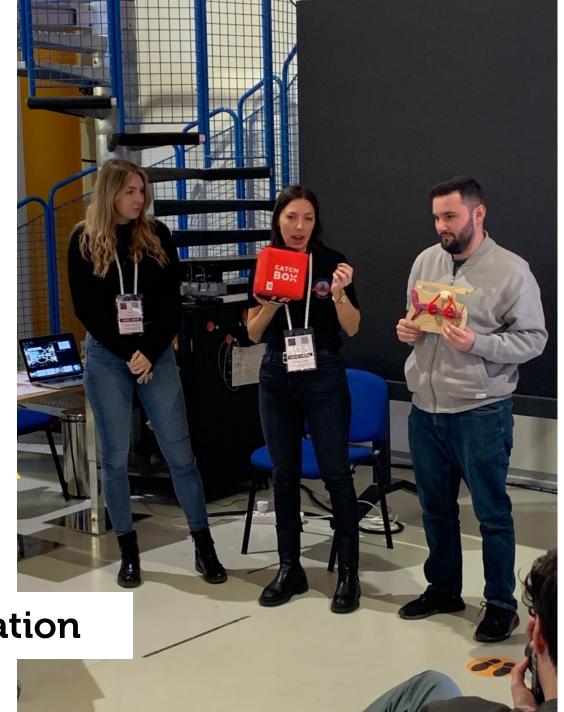












Lots of different ideas, rapid exploration





Lots of different ideas, rapid exploration





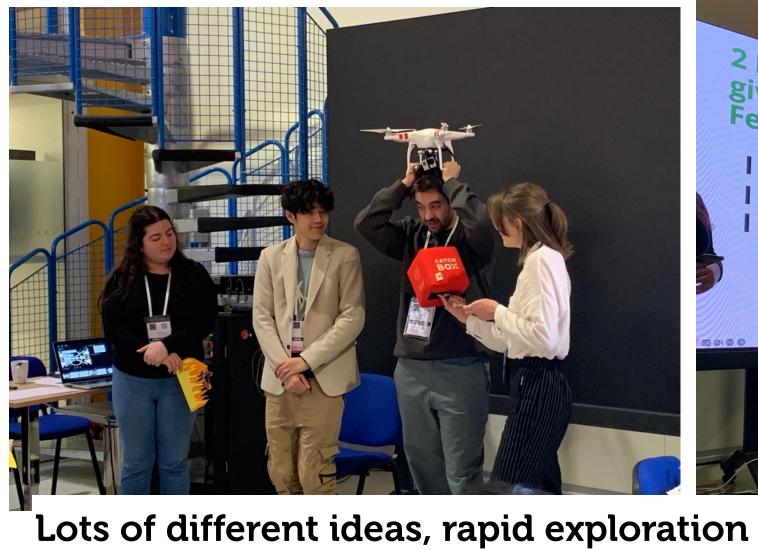


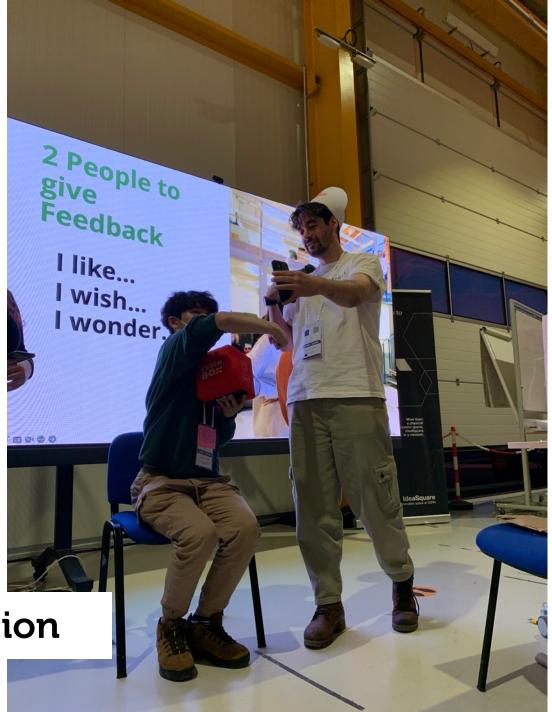
Lots of different ideas, rapid exploration





Lots of different ideas, rapid exploration

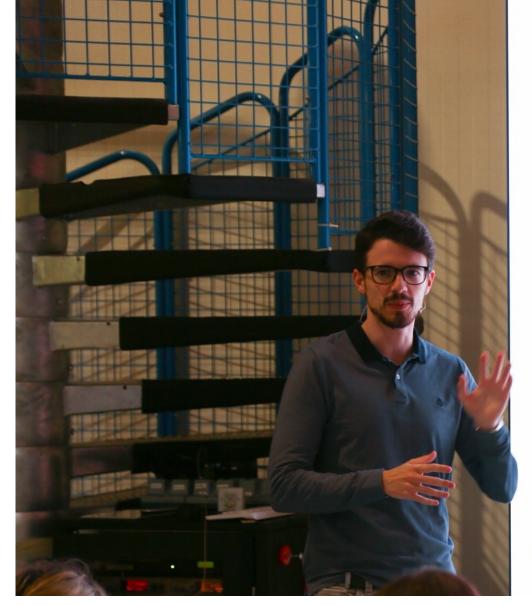








Lots of different ideas, rapid exploration

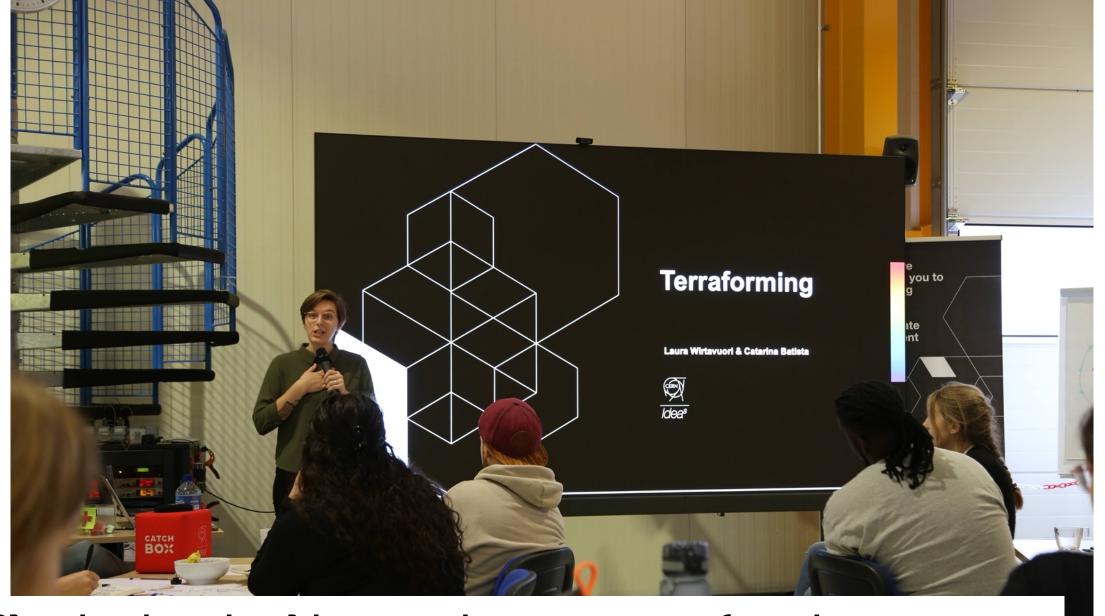


CERN Know



C. Filipe Ramos cf.ramos@cern.ch
Business Development

We learnt about knowledge transfer + cernies



Physics inspired innovation, e.g. terraforming



Physics inspired innovation, e.g. terraforming







Science Mentor for tertiary design innovation students, CBI A3 program



Science Mentor for tertiary design innovation students, CBI A3 program

2 or 3 week innovation experience at IdeaSquare, CERN (Geneva)



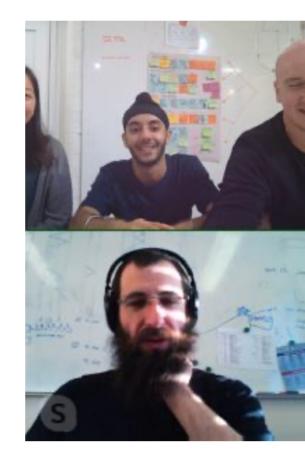
Science Mentor for tertiary design innovation students, CBI A3 program

2 or 3 week innovation experience at IdeaSquare, CERN (Geneva)

2 or 3 week innovation experience at nandin, ANSTO (Lucas Heights)



Science mentor for UG/PG design innovation teams

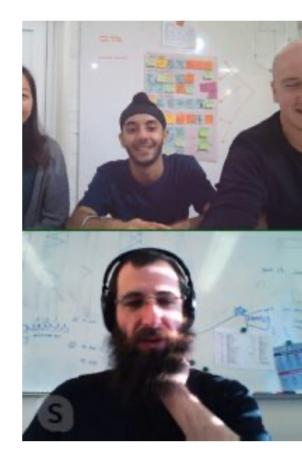




Science mentor for UG/PG design innovation teams

Seeking 2 x mentors!

Science + technical perspective, giving feedback to new application ideas using deep technology



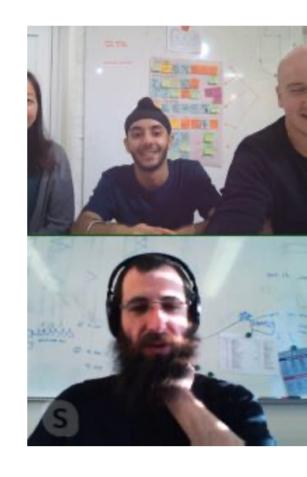


Science mentor for UG/PG design innovation teams

Seeking 2 x mentors!

Science + technical perspective, giving feedback to new application ideas using deep technology

- Approx 10-12 hours spread over 6 months
- Attend ~3 x online presentations to give feedback
- As required, individual consultation meetings with student team





Physics-inspired innovation methods bootcamps





Physics-inspired innovation methods bootcamps

CERN or ANSTO locations

Methods like terraforming, multi-verse thinking, orders of magnitude thinking





Physics-inspired innovation methods "bootcamp"

CERN or ANSTO locations

Methods like terraforming, multi-verse thinking, orders of magnitude thinking

- 2 or 3 weeks, mid-year?
- Work in teams, aimed at cross-node collaboration
- Hands-on project, exploring environmentally sustainable and socially responsible new applications of deep technology for FUTURE (e.g. 2030 and beyond)





























Science Mentor for tertiary innovation students, CBI A3 program

2 or 3 week innovation experience at IdeaSquare, CERN (Geneva) or ANSTO (Lucas Heights)



