



HACKATHON

SmartX Health, 2022

A IISc-Siemens hackathon

A hackathon for students and project staff of IISc only



Reimagine the future of geriatrics, health & safety for MSME and healthcare sectors.

SmartX for Health – Hackathon @ IISc Bangalore

Context

- A Siemens Research and Innovation Ecosystem Initiative for India.
- “**SmartX for Health**” Hackathon will be conducted at the Centre for Product Design and Manufacturing (CPDM), Indian Institute Of Science (IISc), Bangalore.
- Foster curiosity and technical vigor amongst participants at IISc for developing technology solutions pertaining to health, safety and sustainability in the MSME & healthcare industries.
- T, IT and **Corporate Social Responsibility (CSR)** collaboration

Themes

- Geriatrics**
Aging in a technologically advanced world
- Workplace Health and Safety**
- Health and Sustainability**

Technology

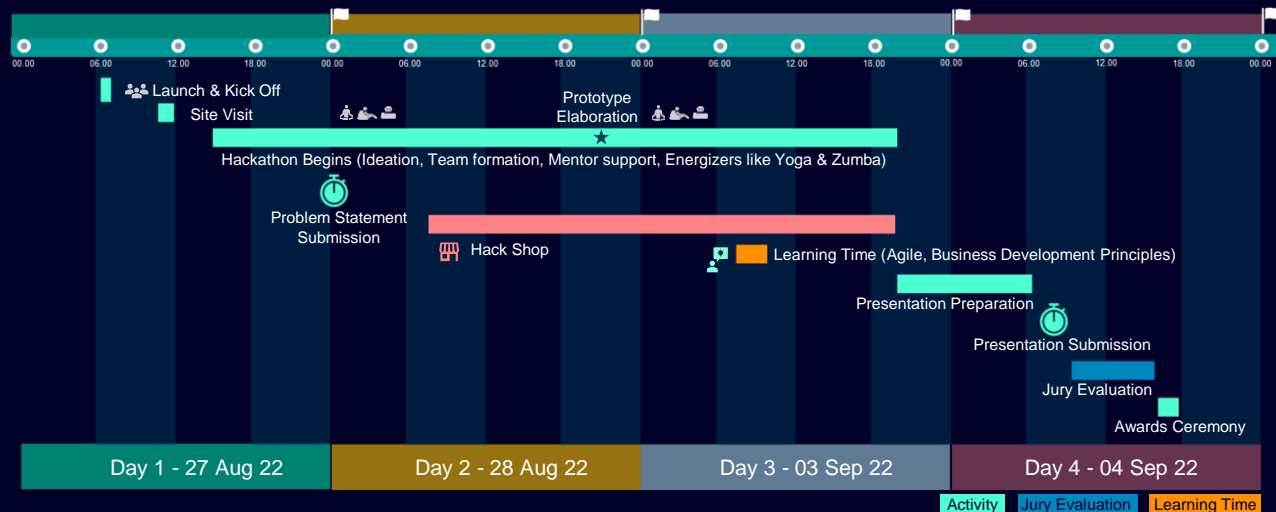
IoT, Data Analytics, Cloud, Smart Wearables, Wireless & Sensors, & many more..., Virtual Reality and more..., Artificial Intelligence, Embedded Systems, Blockchain, Cyber Security

Schedule

Day & Night Event



4 Days
2 weekends



What Happens after the Hackathon

- Winning ideas will be sponsored for next stage prototyping etc. via the CPDMED TBI at CPDM, IISc.
- The ideas will be supported for entrepreneurship from realization through to commercialization.

**It's an opportunity to turn your ideas
into reality!**

What's in it for you?

There is a lot in store for winners of the hackathon...

- Attractive monetary awards for top three winners
- Opportunity for top ten teams to develop their idea into a proof of concept and Minimum Viable Product in a 90-day post-hackathon challenge
- Funding for top six teams of the 90-day challenge at IISc's CPDMED TBI (<https://incubator.cpdm.iisc.ac.in>)
- A great opportunity to turn your idea into a startup!

Upcoming: the official hackathon website will be live soon.

Begin your early exploration around the following hackathon themes

Geriatrics: explore and develop solutions for geriatric health, safety and mobility

- Healthy aging: community solutions and measures for healthy and safe aging
- Transport and mobility solutions: for greater independence of the aged or disabled
- Smart applications and wearables: for preventive measures, monitoring, and remote assistance at home/work
- Cognitive disabilities: solutions for early detection and easy management of Alzheimer's, Parkinson's, Dementia and other areas of cognitive decline

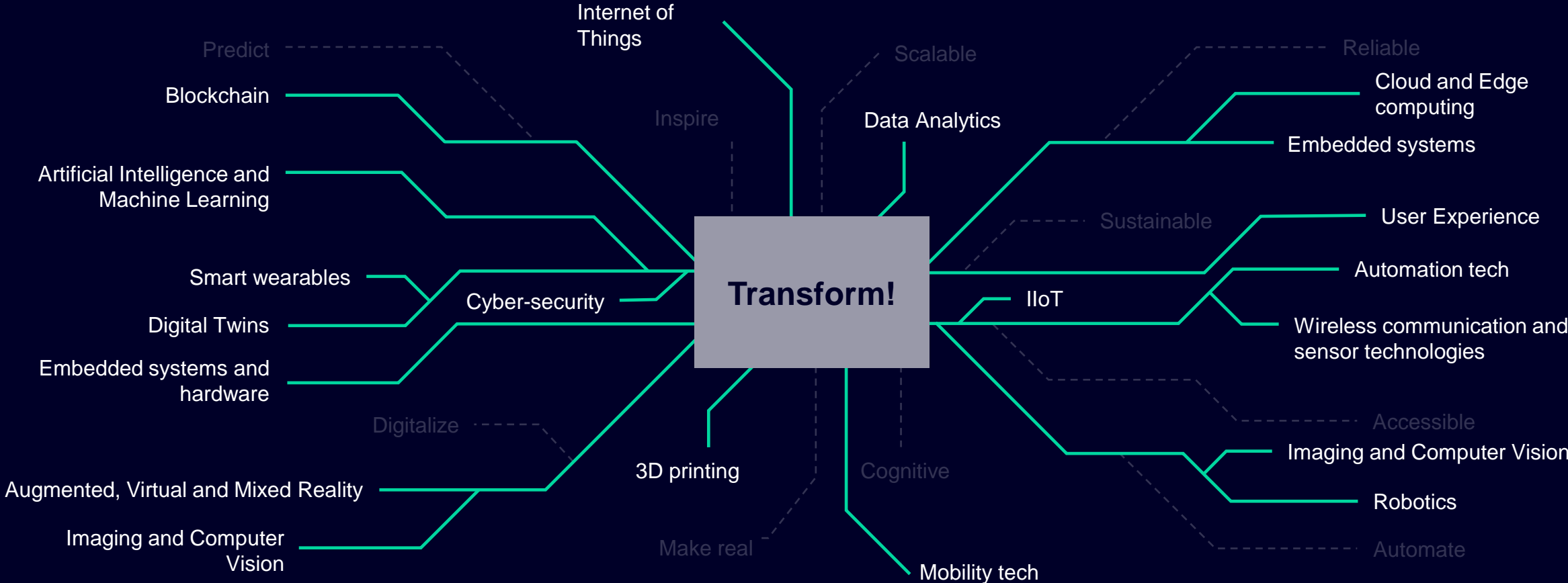
Workplace health and safety in the MSME sector

- Prevention of health hazards
- Addressing workplace contamination & ensuring social distancing
- Predictive maintenance for accident prevention
- Sustainable waste management

Health and sustainability in the healthcare sector

- Pollution control
- Overcrowding
- Medical/bio waste recycling & disposal
- Health and safety of sanitation & healthcare workers

Technology you may use (not limited to...)



Key dates and timelines

Hackathon phase 1: Activities will include visit to hospitals, elderly care centers and MSMEs to observe and identify problems and opportunities. This is a 24hr hackathon activity and teams must assemble at Satish Dhawan Auditorium across following dates and timelines.

- Start: August 27th, 7:30AM
- End: August 28th, 8:00PM

Hackathon phase 2: Activities will include ideation, prototyping and pitch to Jury. This is a 24hr hackathon activity and teams must assemble at MMCR, CPDM across the following dates and timelines.

- Start: September 3rd, 7:30AM
- End: September 4th, 8:00PM

Post-Hackathon: The hackathon will be followed by a 90 days challenge.

- Top ten teams of the SmartX Health hackathon will receive support to develop ideas into proof of concept (POC), and POC into minimum viable product (MVP)
- Top six teams will then be nurtured and financially supported for translation and incubation at CPDMED TBI

| Good luck!