

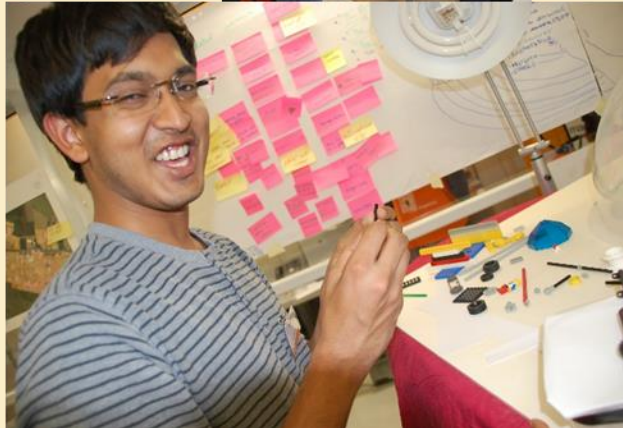
Come on Baby!

Federica Ferraro

THE Port Hackathon 2015

CERN & Campus Biotech

The Team



Pia's car (inside view)



“Every year
1,000,000 children die
on the first day of their life”

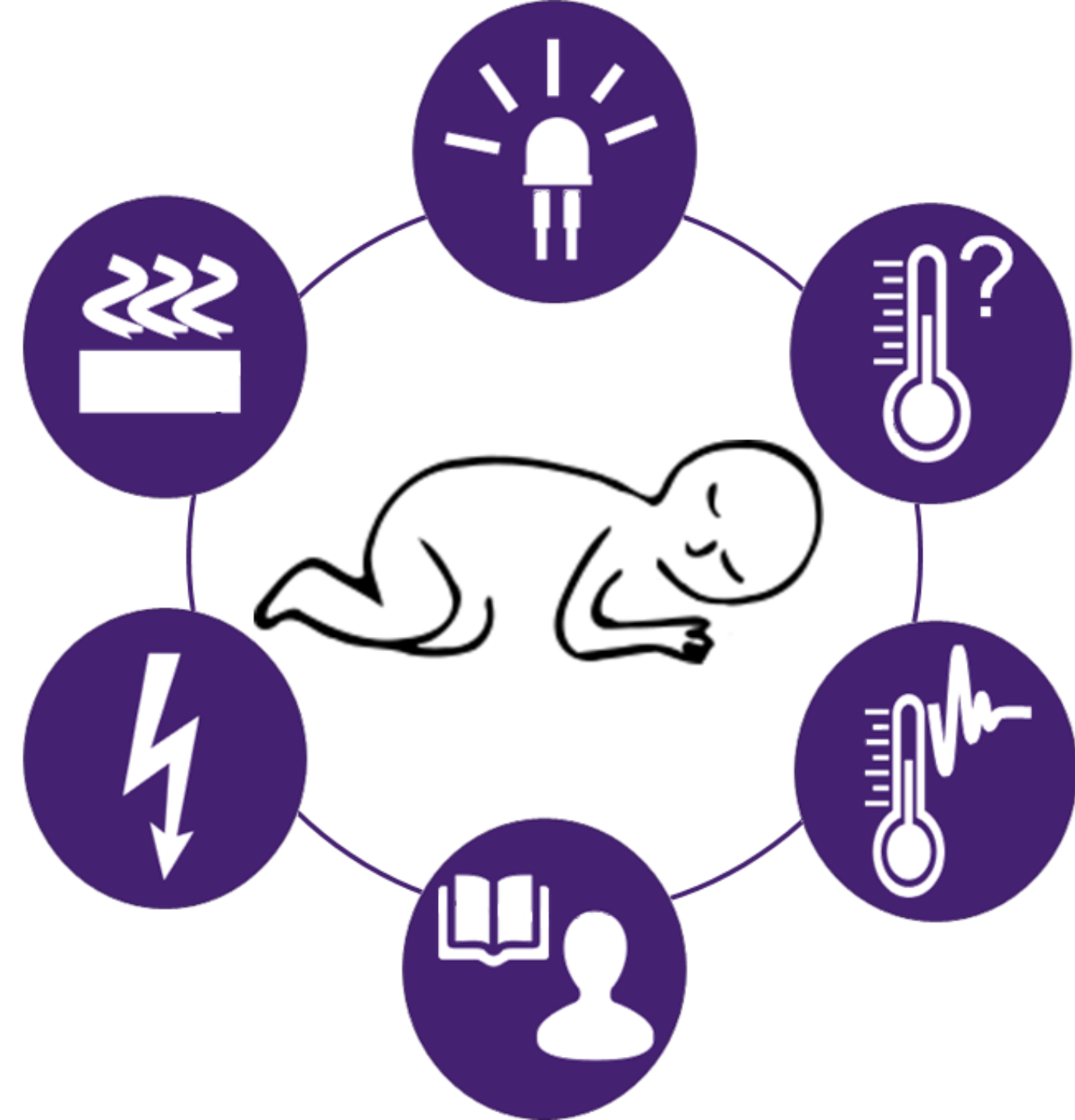
Save the Children

“99% of new-born deaths
occur in the developing world”

World Health Organisation





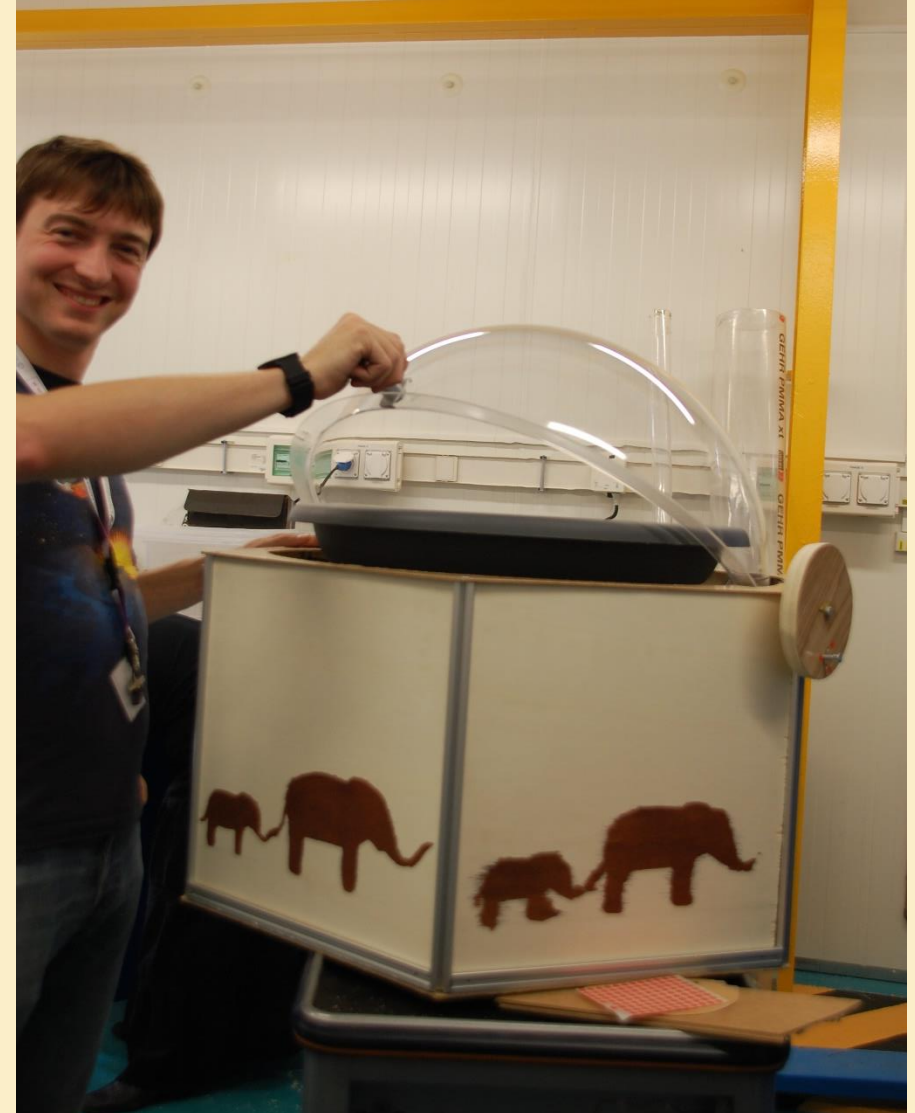


Low cost
Low energy consumption
Long lasting

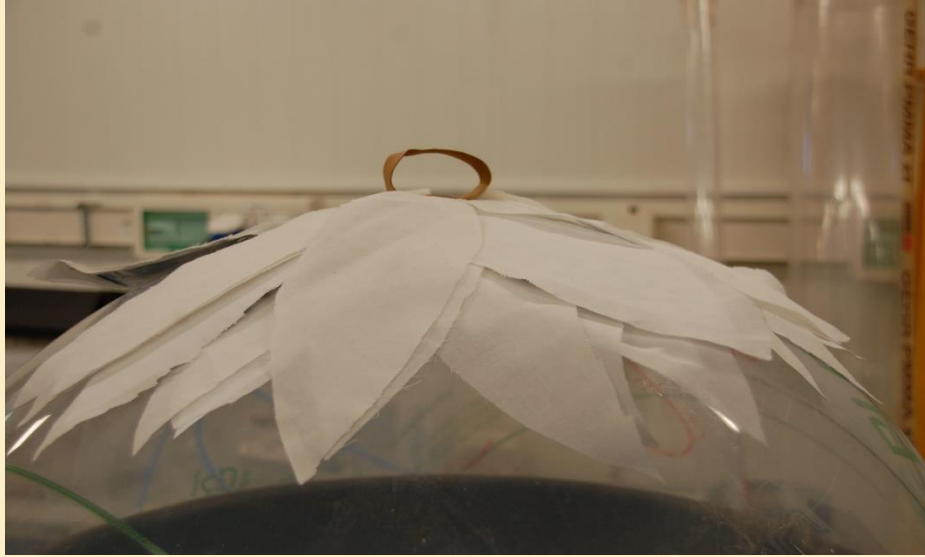
Trustworthy
High tech
Intuitive to use/clean



New Design



Hood: Cover, Stimulate & Reflect

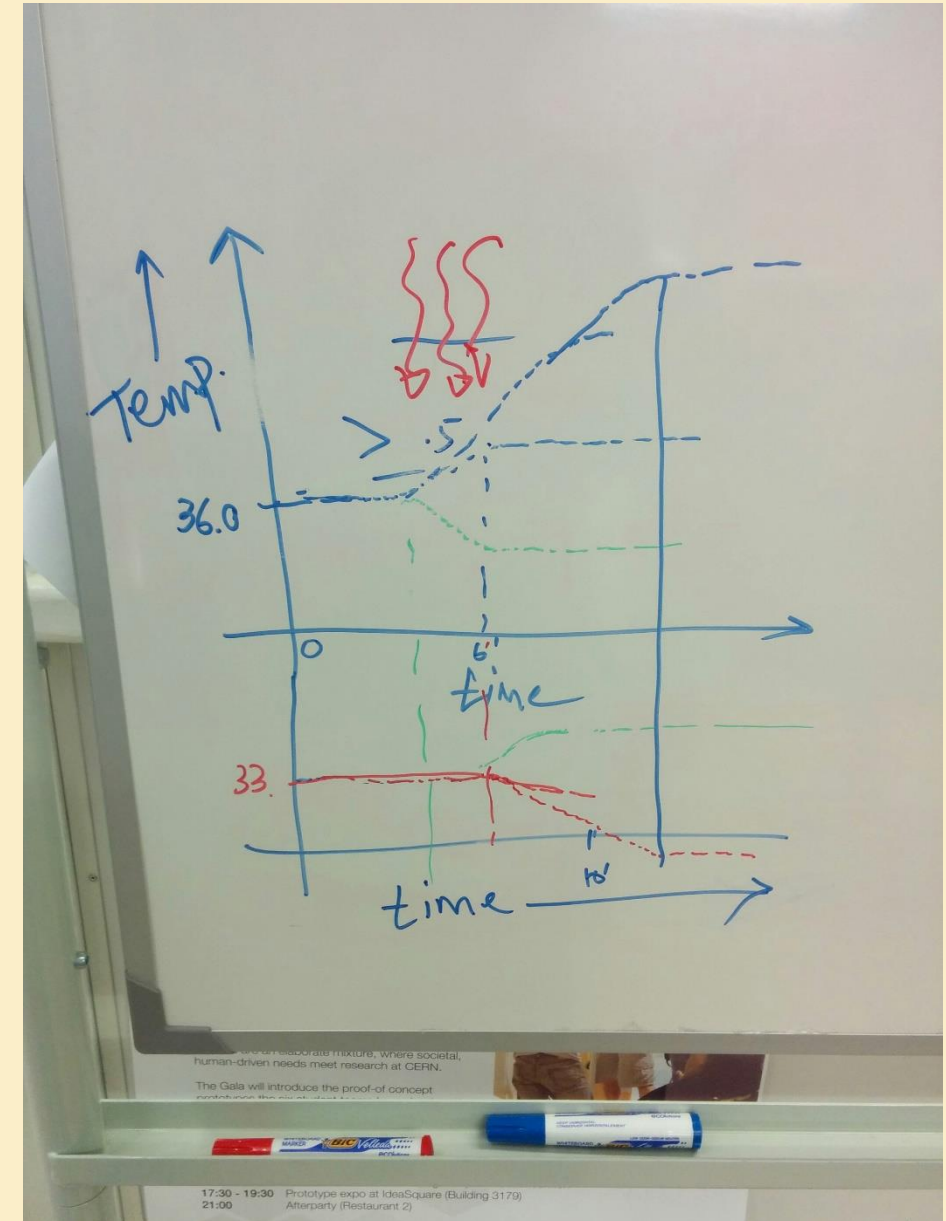


Temperature Regulation

6 temperature probes
2 probes on trunk
2 probes on the feet
1 inside and 1 outside the incubator

Measurement of rate of change of the difference between trunk and feet for early detection deterioration

Aim: keep the baby in its
ThermoNeutral Zone



Phototherapy

Jaundice Treatment

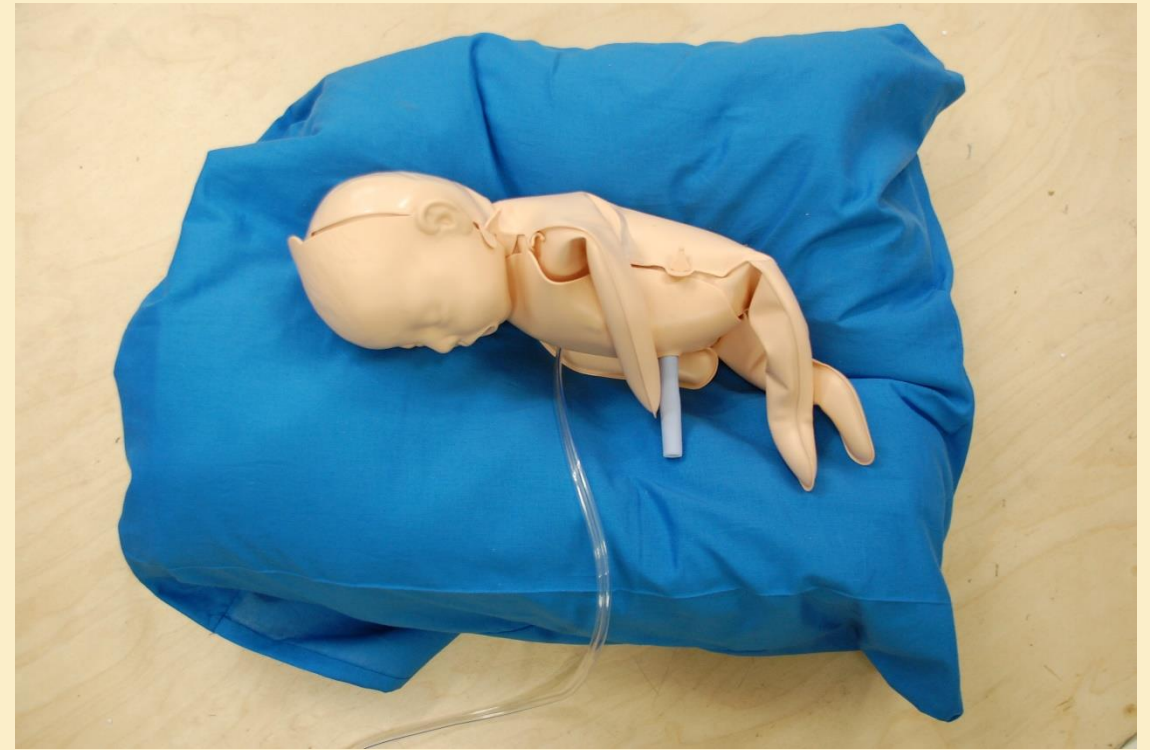
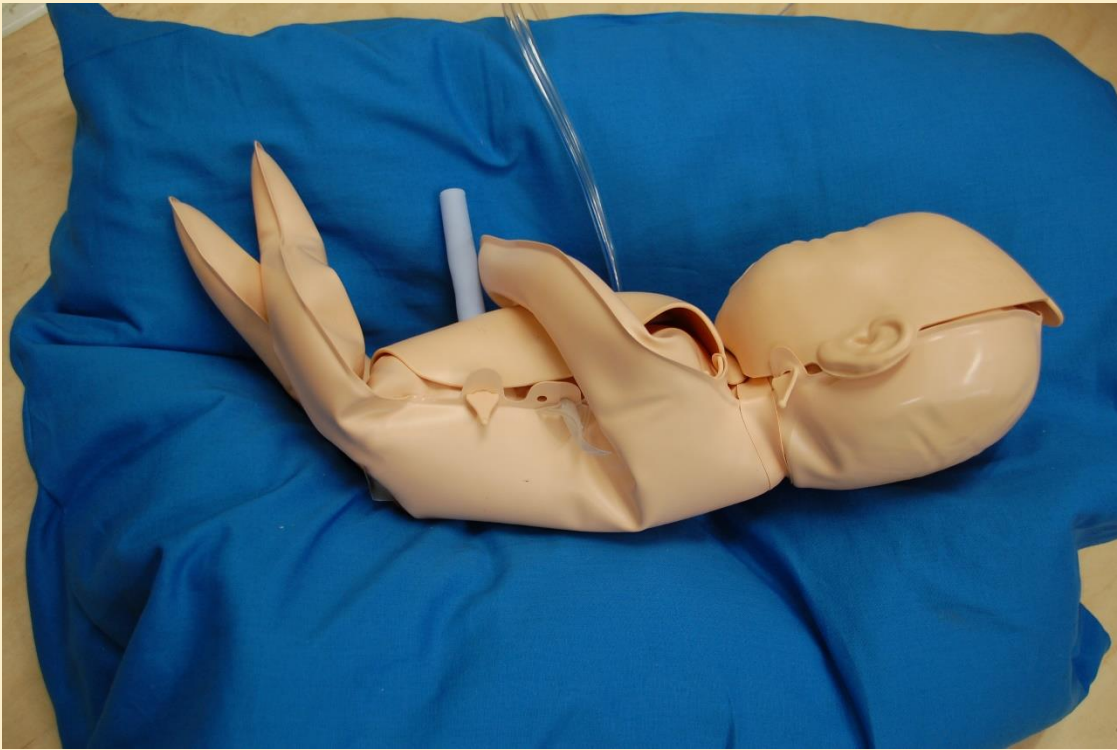


Phototherapy Umbrella



Baby Comfort & Body perception

Conductive Matress to keep the warm and help perception of the body



The journey continues

globalneonat.org

Pia Massatsch – Project Manager

Cooperation.epfl.ch/essentialtech-en