# Come on Baby!

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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"

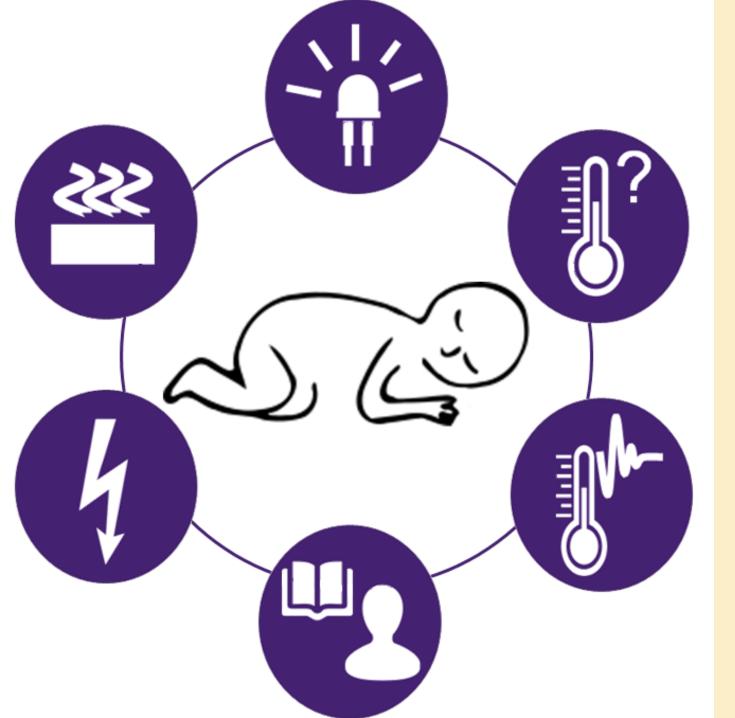
Save the Children

# "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









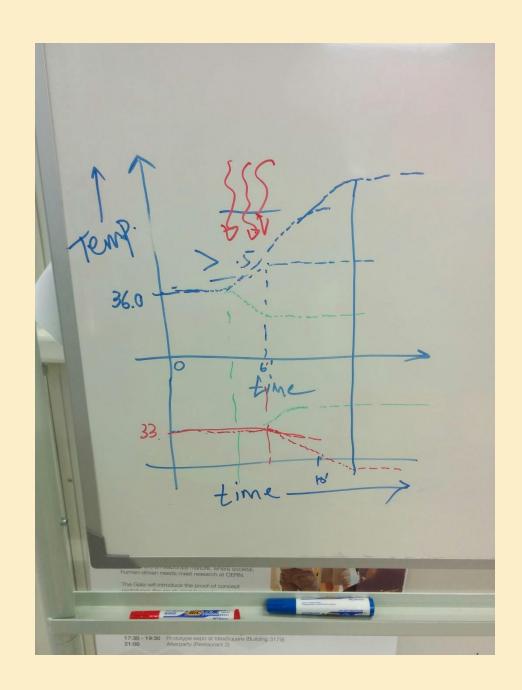
#### Temperature Regulation

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



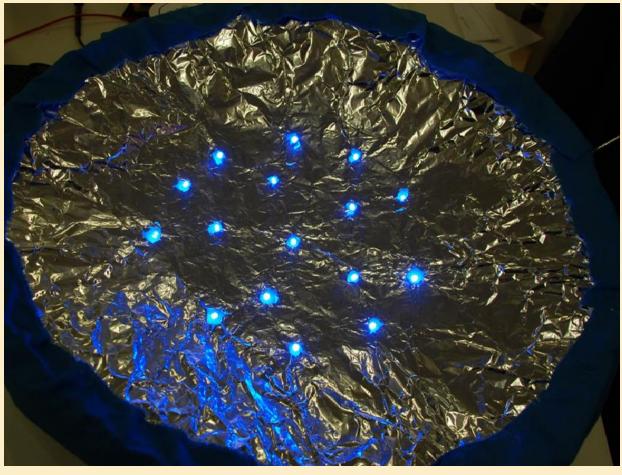
#### Phototherapy

Jaundice Treatment



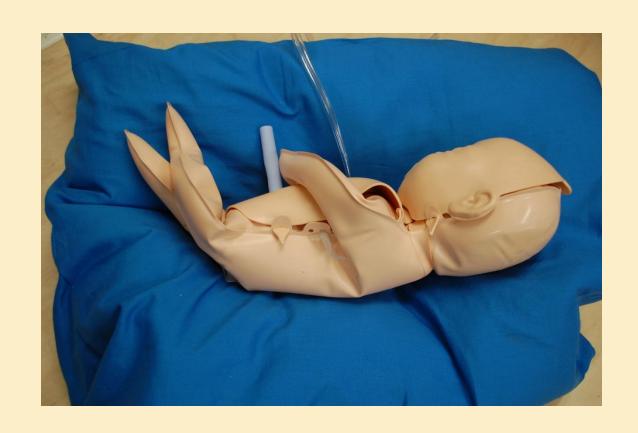
#### Phototherapy Umbrella





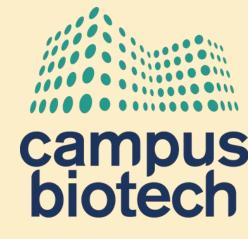
#### Baby Comfort & Body perception

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



