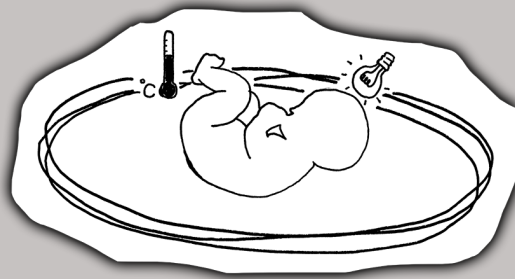# THE Port - Hackathon at CERN

Low Cost
High Tech
Infant Incubator

Summary:

Premature babies need incubators to survive their first days of life; however, they are still lacking in most district hospitals in developing countries. There is thus a need to develop an infant incubator that is affordable, effective and sustainable specifically for the constraints encountered in these contexts.

Goals:

Developing innovative design ideas, fancy shapes, crazy concepts. The design must make the incubator appealing to its users (doctor, nurse), but also to the parents of the newborn. It must thus convey a feeling of safety and inspire trust, but should not be too bulky. The design must also optimize the human-machine interactions. The display and user interface are of course important components, but more generally the way the baby can be watched and accessed should be considered. Finally, the design must be adapted to the different local cultural specificities (language, symbolism of colors, etc…), as the incubator can be expected to be used in various regions.

Resources:

Can be adapted, from pencil/paper to computer/3D printer! Construction materials of different shapes and sizes would enable the team to directly materialize their ideas, but this could also be done using LEGO® parts or similar systems.

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