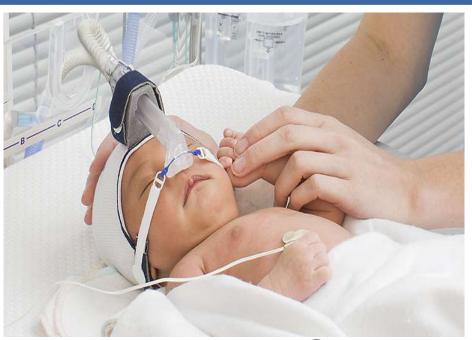
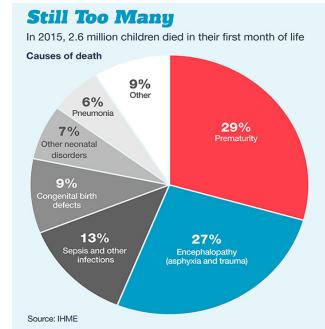


Illness Description









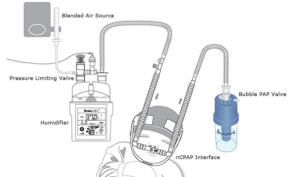


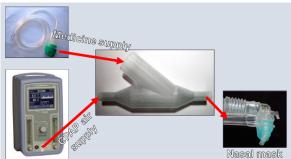




Products Description







MAIN GOAL: Increase Infant RDS survival rate by introducing new functionalities in present RDS systems:

IMPROVING

- Simultaneous medicine-airflow supply
- Remarkably improved medicine supply efficiency
- · Possibility of supplying dust medicine
- Even in severe RDS cases (complete tracheal obstruction)

NOT DAMAGING

- CPAP functionality
- respiratory function
- baby comfort
- Airflow



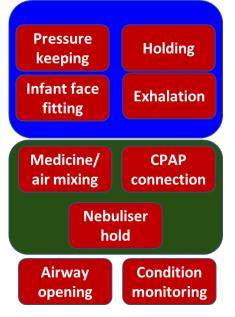




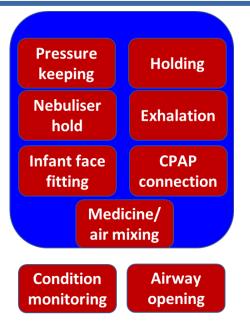


Conceptual design: Requirements list, functional structures and variant evaluation













UBORA
infrastructure
allowed us to
better classify our
device, as well as
vote for the most
adequate design
alternatives





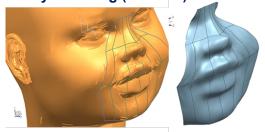


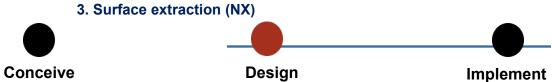
CAD design

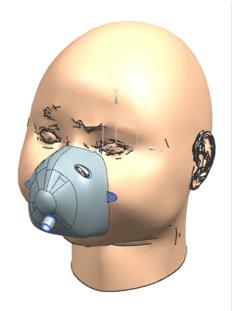




1. Face geometry scanning (Scanekt) 2. STL editing (Meshmixer)







4. Mask geometry generation (NX)



STL generation and 3D printing











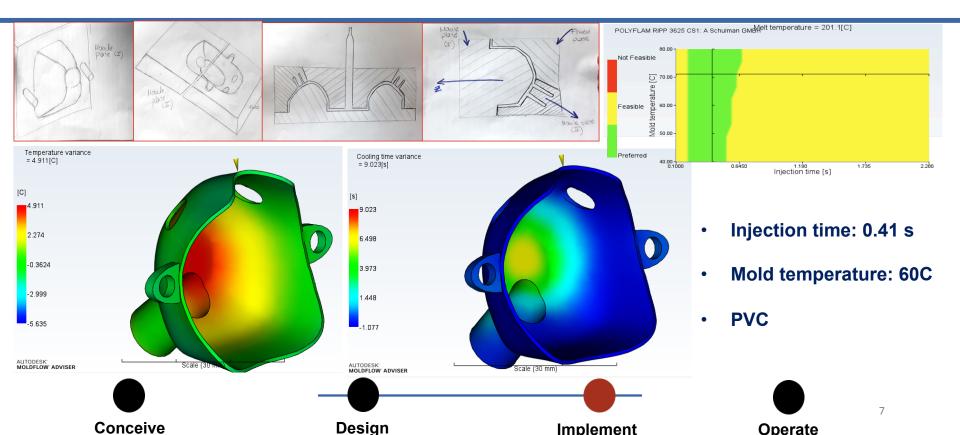
Design

Implement

Operate

Mass production (Moldflow)





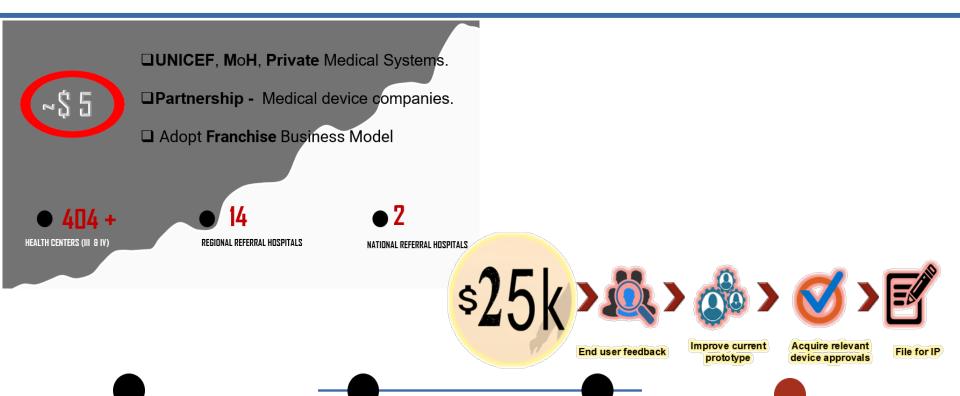
Revenue Model and Next steps

Design

Conceive



Operate



Implement



Job Wekesa Chaka

Biomedical Engineer



Fethya Sied

Biomedical Engineer



Beatriz LÓpez

Mechanical Engineer



Brenda Chepng'eno

Structural Engineer



Emmanuel Kamuhire

Computer Engineer



Eng. Mathew Ocheng - Mentor



Prof. Juan M. Munoz - Mentor



Prof. Akim...y. Suntoki - Mentor





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