

Teaching engineers to tackle the **SDGs**

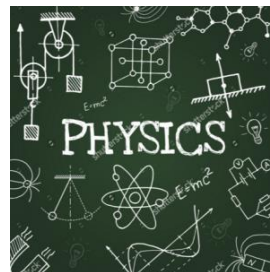
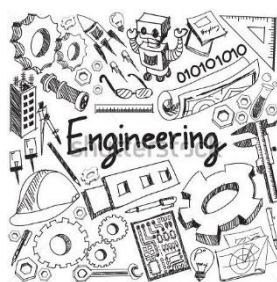


An Enginpreneur's Journey: From 2K at CERN to 2°C in Last-mile Vaccine Cold-chain in Low-resource Settings

KITTY LIAO
Ideabatic LTD.

3 GOOD HEALTH
AND WELL-BEING





3 GOOD HEALTH
AND WELL-BEING



Global Need

2-3 M
Child Deaths per year

19.9 M
Unvaccinated

#VACCINESWORK TO LEAVE NO ONE BEHIND

About **116.5 million** children worldwide receive **basic vaccines** every year.

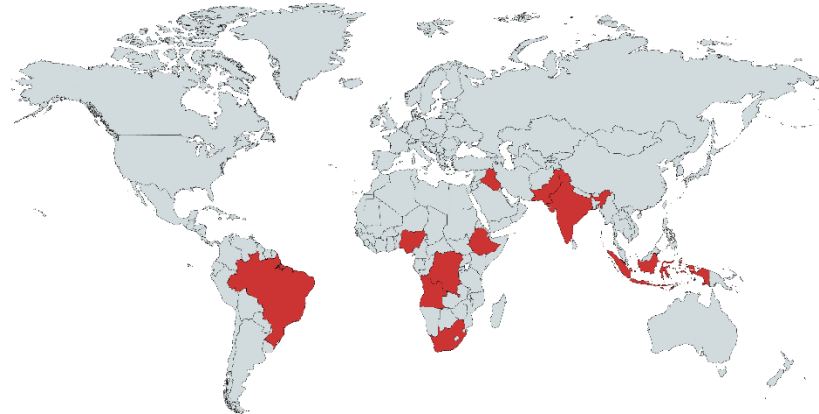
But **19.5 million** children still miss out.
About **60% of these** children live in **10 countries**:



Immunization Agenda 2030' being drafted by WHO, GAVI, ICRC et al.

- Strengthening global immunization efforts to leave no one behind
- Meningitis prevention and control

Top 10 countries in need



100 HEALTH
100 WELL-BEING



The Crucial Last-Mile

- 2-8°C
- Few hours to 7 days
- Up to 85%* of vaccines spoiled

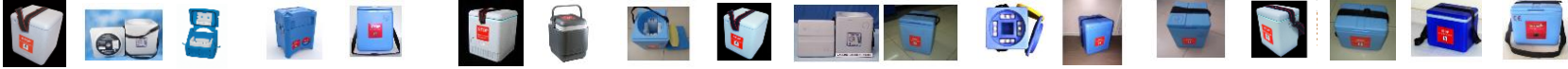


\$ 1 Billion

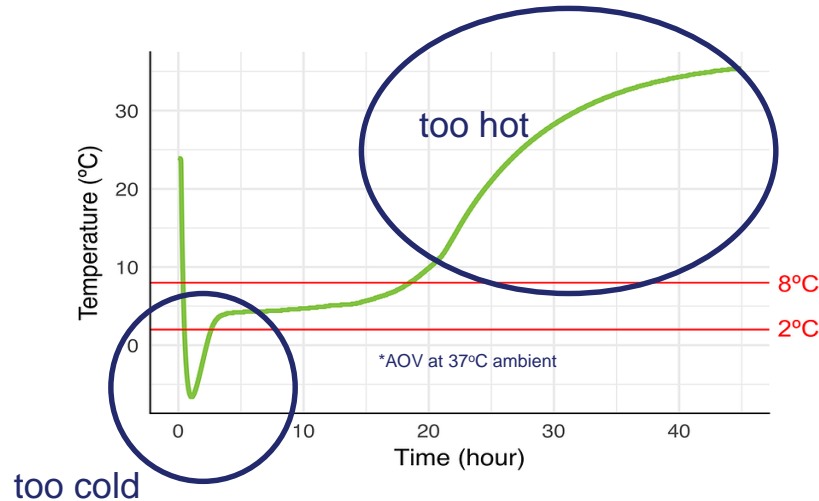
Wasted every year



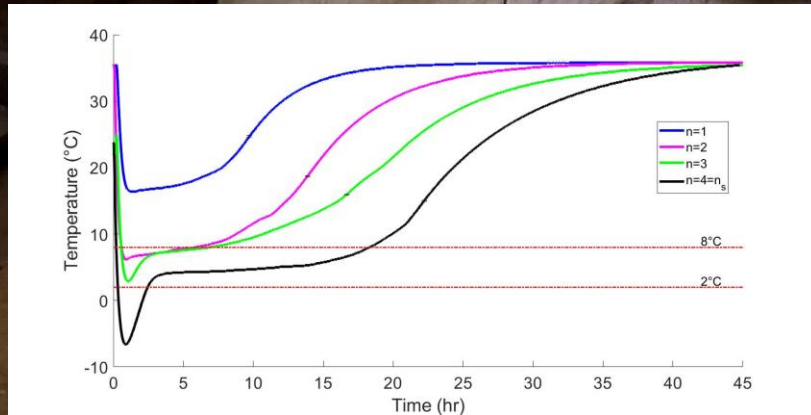
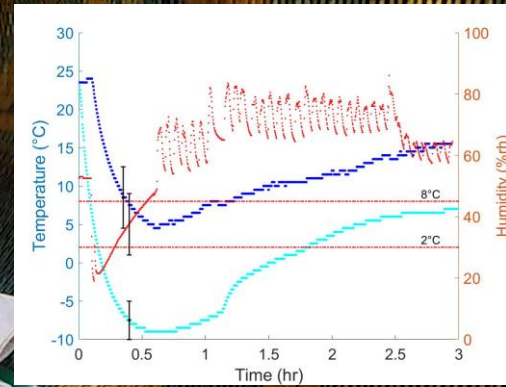
Issues with current vaccine carriers



Without opening



Current vaccine carriers don't work



Human errors accelerate spoilage



*Photos taken in remote Madagascar as part of Ideabatic's field trial in Nov 2019

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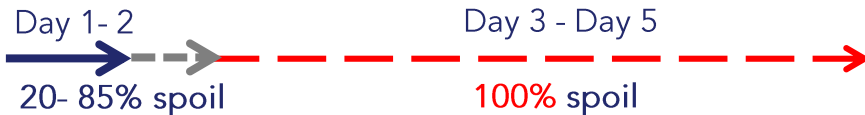
What if we could reduce the wastage and extend journeys to up to 5 days?



SMILE

Smart Last-Mile Vaccine Carrier

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What did the healthworkers say?

“We have the honour of asking you to grant our request to prioritise Ikongo Health District the use of SMILE when approved by the World Health Organisation and the Malagasy State through the Madagascar Ministry of Public Health.”

“With SMILE, we don’t need to return to base and refill the icepacks after one day. We can visit several villages for 5 consecutive days.”

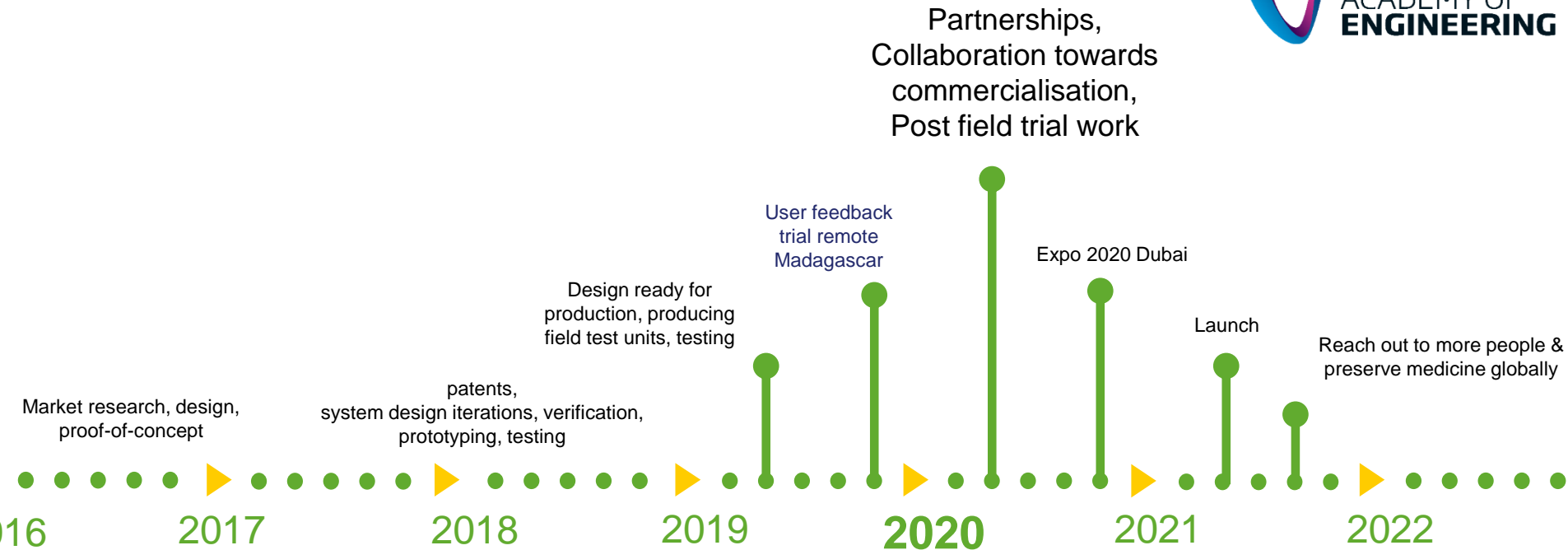
“SMILE is practical, especially in inaccessible and rural areas. Ideabatic’s involvement is increasing these teams’ experience, especially during the individual practical session.”



“We don’t need to worry about vaccines being broken during the bumpy journey.”

“The vaccine organisation system makes the work easier.”





Awards/ Supporters

12 Innovation awards worldwide



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Last-mile vaccine delivery is challenging, let's work together to reach out to every child however difficult the journey is!



SMILE

Smart Last-Mile Vaccine Carrier



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