

FRUGAL INNOVATION: A wise approach to delivering better care at lower cost

Dr. VISHAL RAO (Oncologist by day. MacGyver by night!)



Artificial Voice Box

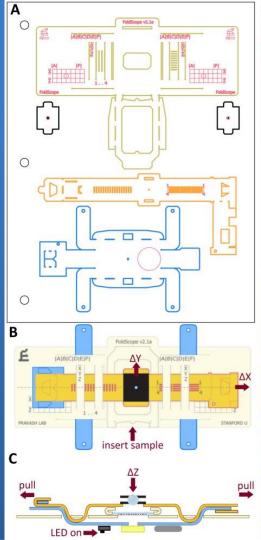
Photo: newslaundry

« SPEECH IS A RIGHT, NOT A PRIVILEGE »

Prof Manu Prakash (Stanford University)

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microscope (Foldscope)



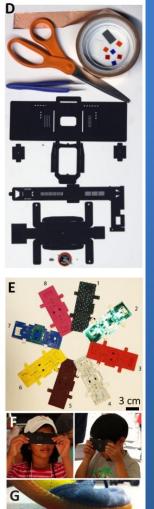




Photo: Cybulski J, Clements J, Prakash M

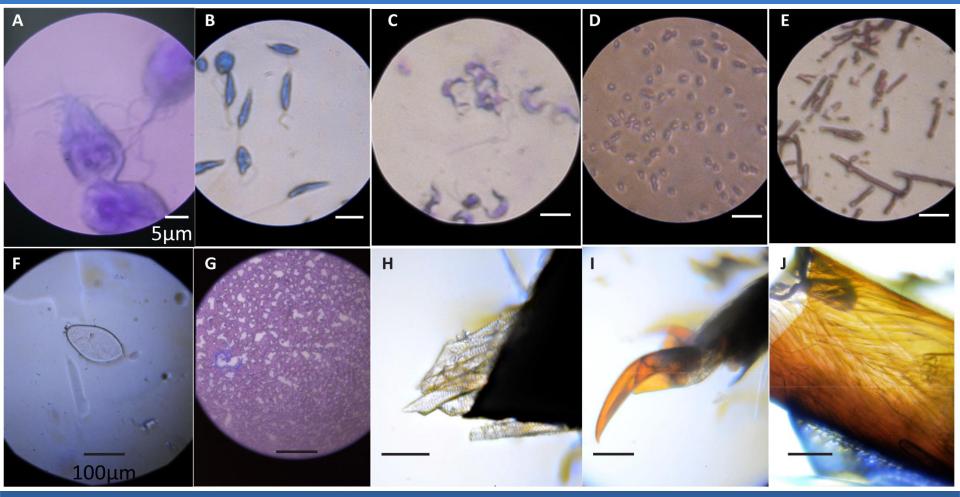
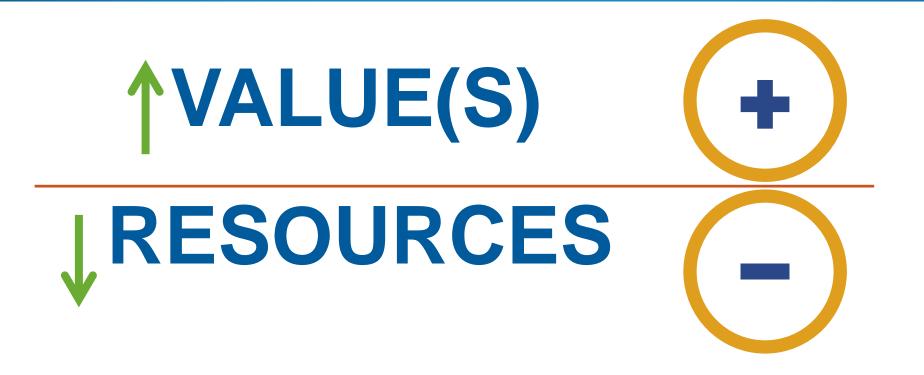


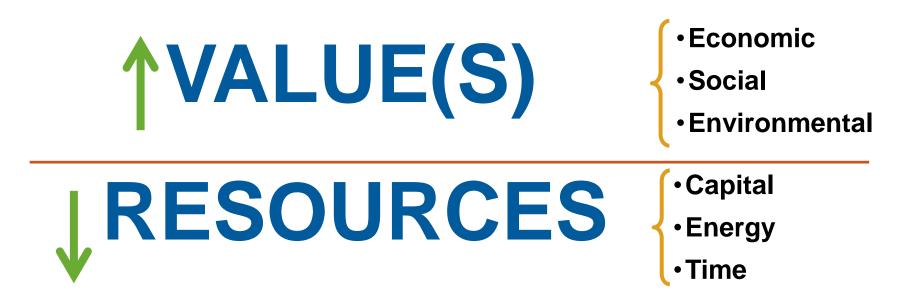
Photo: Cybulski J, Clements J, Prakash M

Frugal innovation





Frugal innovation





Frugal innovation in healthcare



RESOURCES



Frugal innovation in healthcare





Frugal innovation = **DISRUPTIVE** innovation







Bundesarchiv, Bild 183-1989-0712-025 Foto: Roeske, Robert | 12. Juli 1989





Jane Chen

Photo: Sandy Nicholson





+ 250,000 babies saved !



Frugal innovation = WISE innovation

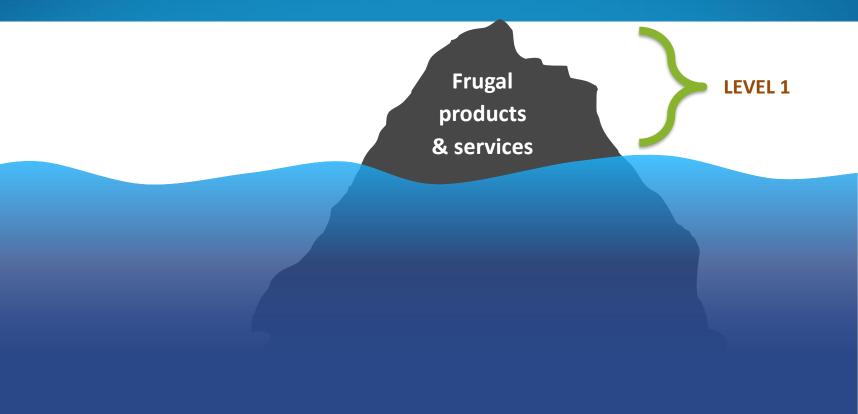
∱JOY

SUFFERING



HOW CAN YOU ADOPT FRUGAL INNOVATION?

The 3 levels of frugal innovation





Frugal products

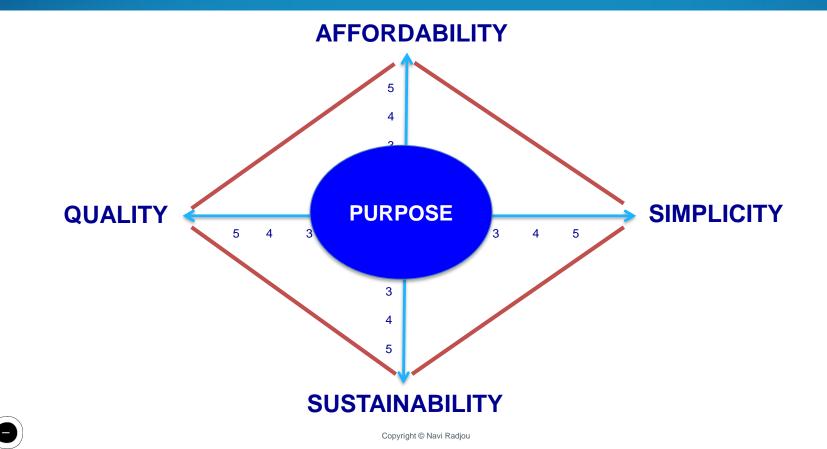




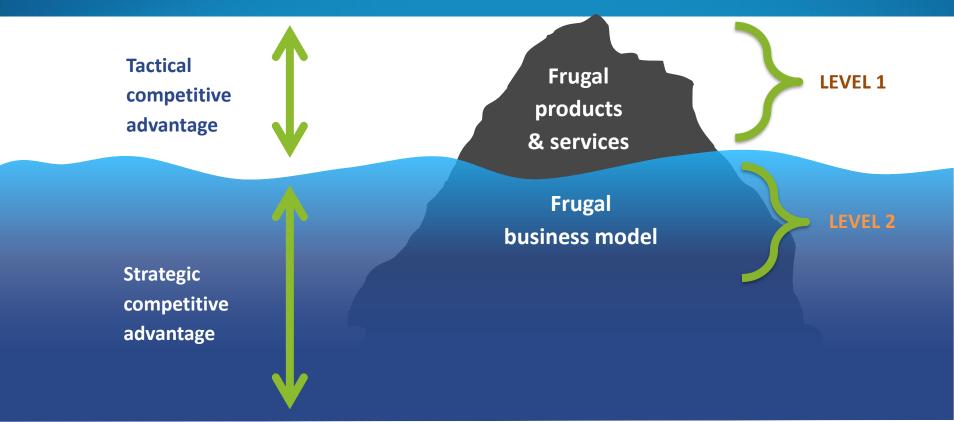




Frugal products must embody 5 key attributes



The 3 levels of frugal innovation





Frugal business model: GE Healthcare





MAC 400

MAC i



Frugal business model: GE Healthcare



GE Sustainable Healthcare Solutions (SHS)

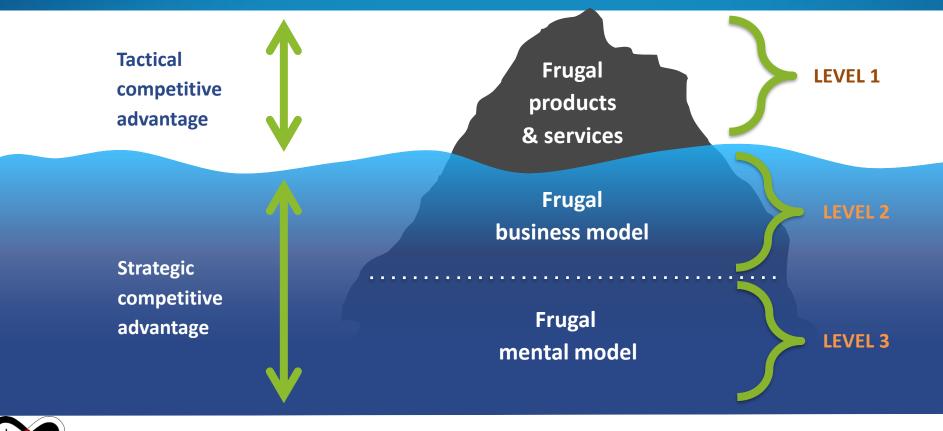


Terri Bresenham Chief Innovation Officer GE Healthcare

- Mission: Affordable solutions for 5.8 billion people without healthcare access
 - **Strategy:** Build ecosystems with governments, clinicians, startups, NGOs



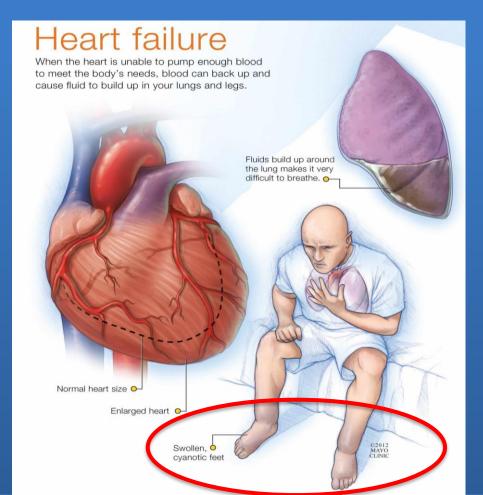
The 3 levels of frugal innovation



£2 billion **Cost of heart** failure per year (NHS)

75% Avoidable repeat emergency admissions

Frugal mindset #1: Prevention is better than cure



Source: Heartfelt Technologies

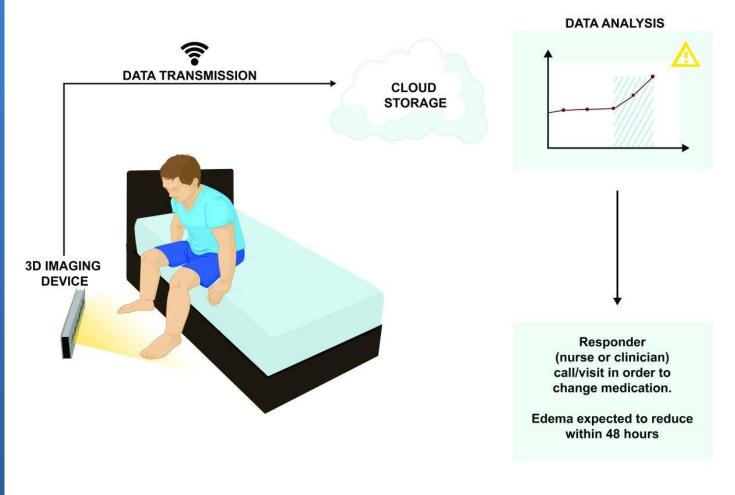
Heartfelt Technologies

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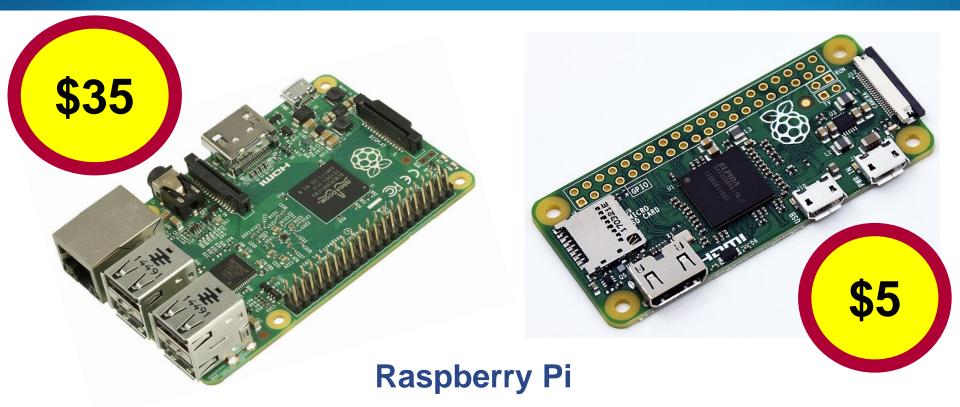
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Photo: Heartfelt Technologies



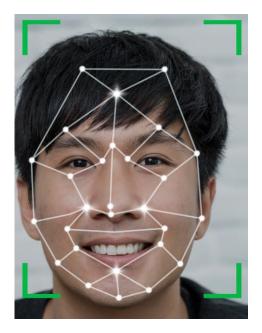
Source: Heartfelt Technologies











FEET RECOGNITION

FACE RECOGNITION





Study on frugal innovation and reengineering of traditional techniques





HELIX Studio at St Mary's Hospital, London

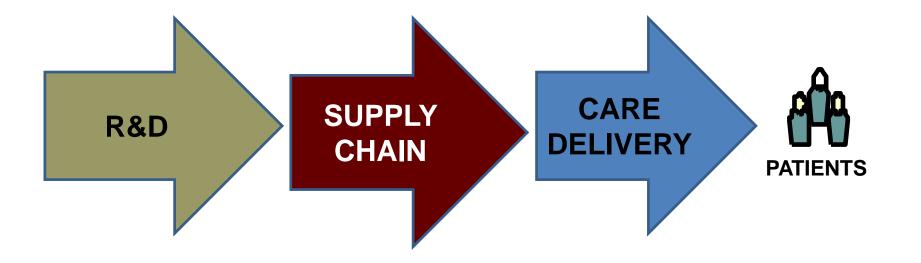
MAR

Photo: Helix Centre

IV PRE

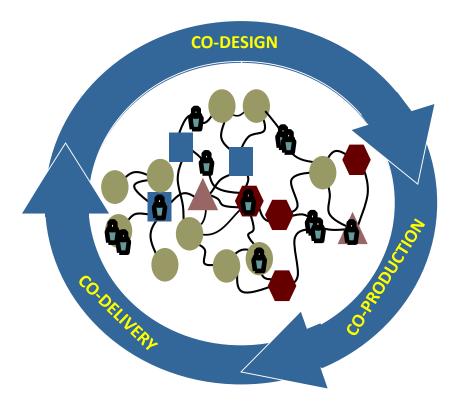


Frugal mindset #3: Don't innovate *alone*. Co-create solutions with all value chain partners





Frugal mindset #3: Don't innovate *alone*. Co-create solutions with all value chain partners





SUMMARY

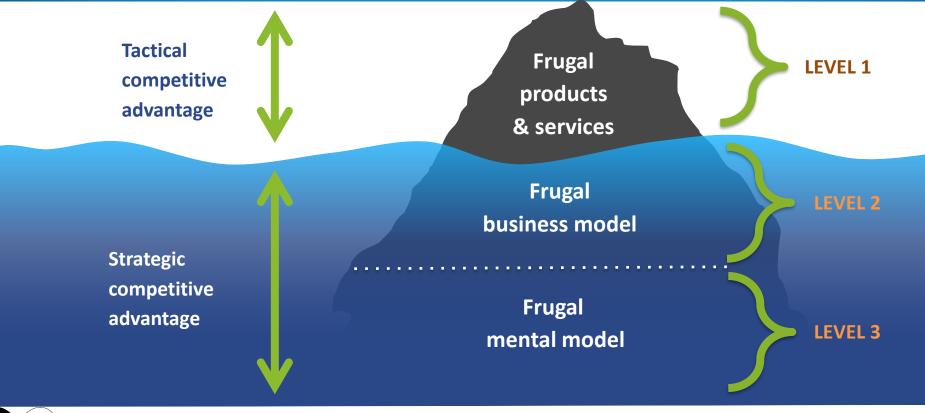
Frugal Innovation: Doing (much) better with (much) less







The 3 levels of frugal innovation



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