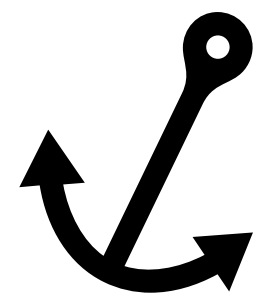


## New Betio Hospital in Kiribati



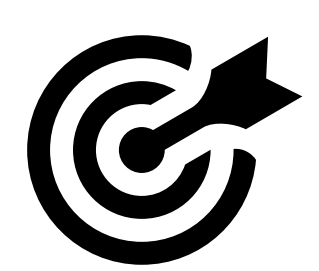
### What?

- Building of a new sustainable hospital on an isolated island following the ethical responsibility of providing healthcare to everyone



### Why?

- Challenges facing Kiribati: sea level rise, freshwater supply, pollution, land availability, overcrowding, health, unemployment, reliance on aid



### Where?

#### Environmental Sustainability:

- Accommodate for sea level rise -> Raising ground
- Minimizing energy and lessen carbon footprint -> passive solar design, ventilation, renewable building materials
- Freshwater supply -> rainwater for irrigation and toilet flushing

#### Social Sustainability:

- Transparency, access and equity to healthcare -> open central courtyard, decentralizing primary care

#### Economic Sustainability:

- Increasing local employment, improving services and model of care -> upskill local laborers and clinical staff
- Reduced cost -> less external energy and waste production

#### Systems Sustainability:

- Improve job satisfaction -> use highest standards for respite space and department adjacencies
- Digitalization of hospital
- Resiliency -> space flexibility for catastrophes, adaptability to trauma or significant threat



### Ways beyond?

- Improving health systems performance:
  - Health system outcomes
  - Care delivery
  - Efficiency of operating systems
- Including natural environment and other hospital settings



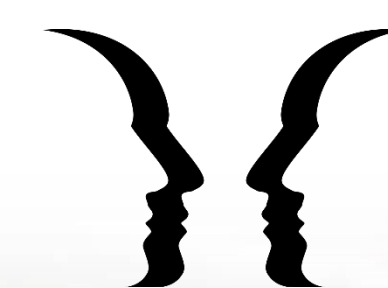
### AHA Moments

- Concept for high-tech and high-performance hospital in a country with inadequate healthcare -> unlikely to be realized but still the effort is made
- First project of its kind -> large scale climate change adaptation development for small island nations



### Where?

- Location: Betio in Kiribati



### Who?

- Investors: New Zealand Ministry of Foreign Affairs
- Planning: Jacobs & Sapere Health planning Agency
- Benefiting party: Kiribati people



### But!?

- Natural conditions -> rising sea levels (5.5 inches in the next 30 years), heavy storms, tornados conflicting with construction work
- More emerging problems -> drought in June 2022, 73% of households have contaminated water supply
- Rely completely on external founding institutes/governments
- Are there enough qualified health care professionals available?
- Only in planning phase -> many of the sustainability goals don't have specific realization plans

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