The Cumberland Initiative TRANSFORMING HEALTHCARE QUALITY AND COSTS





Making the health and wellbeing system work for Slough

Prof Terry Young
The Cumberland Initiative

The Five Year Forward View

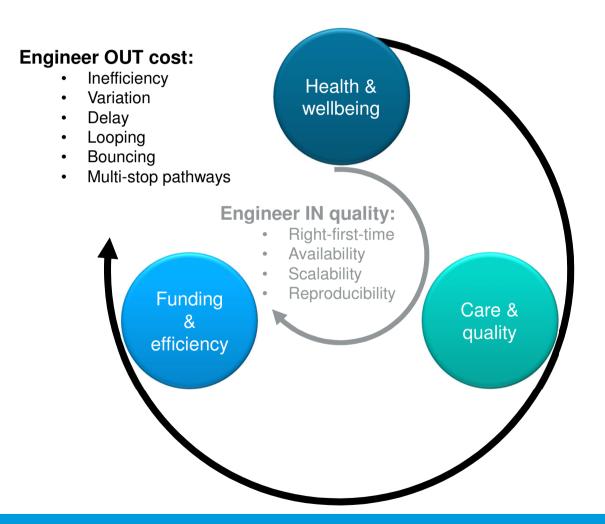


• Needs to close critical gaps (p7)

22/02/16 3

The Five Year Forward View: 3 gaps (p7)





22/02/16 4

The Five Year Forward View



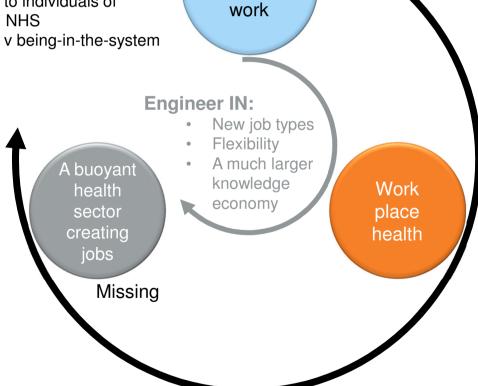
- Needs to close critical gaps (p7)
- Needs to connect health and wealth in a new way [p 11]

Health and Employment (p 11)





- Crippling cost to individuals of engaging with NHS
- Being-in work v being-in-the-system



Support

to stay in

The Five Year Forward View



- Needs to close critical gaps (p7)
- Needs to connect health and wealth in a new way [p 11]
- Needs to be able to design and deploy new models of care with confidence [Chapter 3]

What is a model?

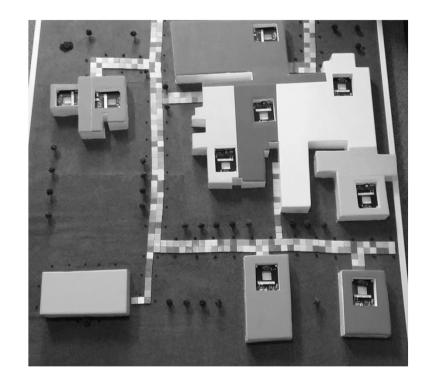


Lots of options:

- A shared mental construct
- Something small and physical
- Something large enough to walk through
- Something mathematical
- A computer representation

Physical, maths-based & computer models can PROVE out services.

They are simpler versions of reality that TEST the critical performance & unintended consequences.

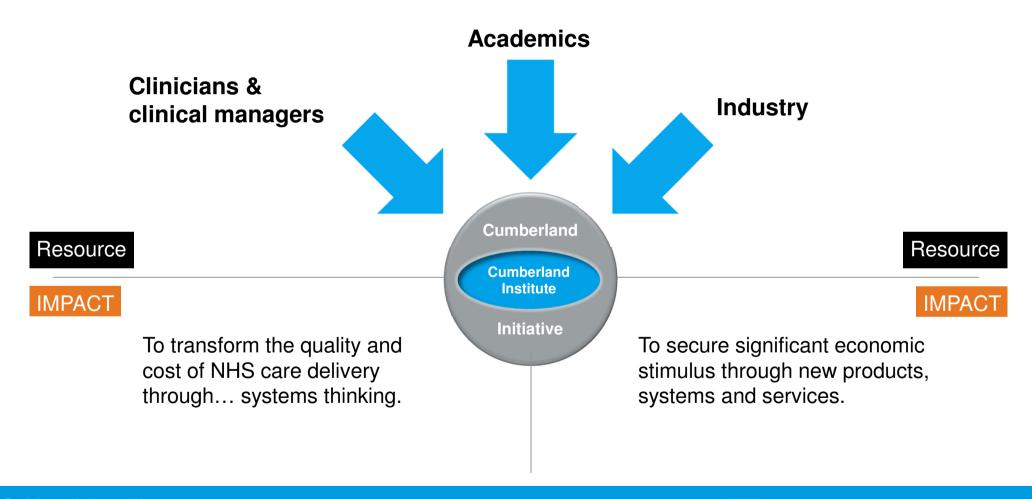


Final Year Project model of Mt Vernon Cancer Centre with proximity sensors to explore staff and patient flows. Laxman Kerai at Brunel 2014/15. Supervisors D Bell & T Young

22/02/16 8

What is our vision?





Example – an Emergency Dept.

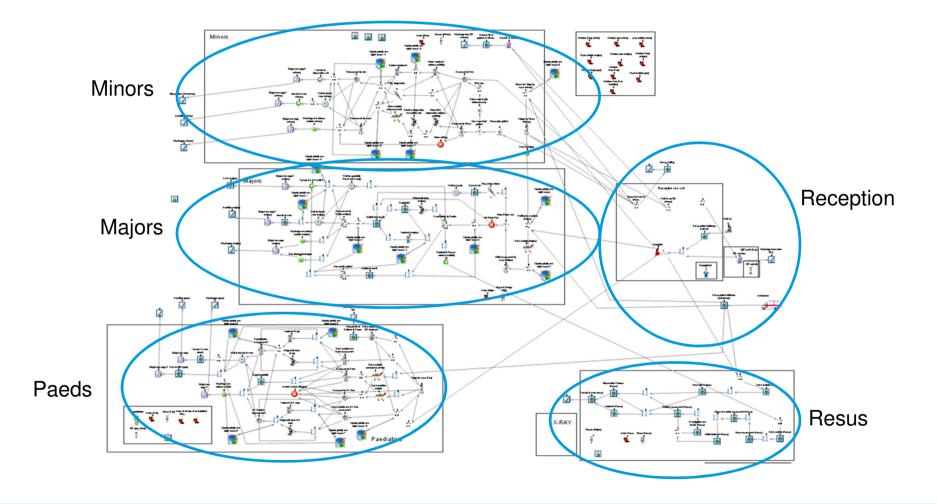


This example has resulted in several publications, including:

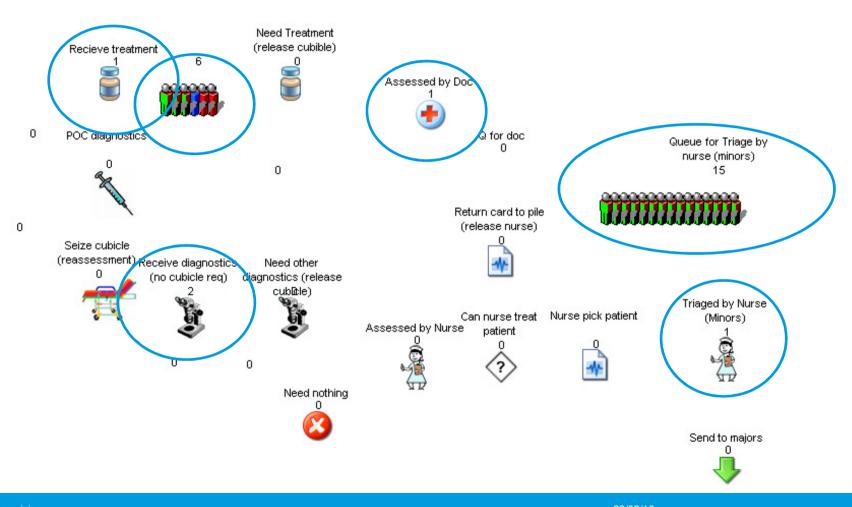
- J Coughlan, J Eatock & N Patel (2010) Simulating the use of re-prioritisation as a wait-reduction strategy in an emergency department *Emergency Medicine Journal* doi:10.1136/emj.2010.100255
- Eatock J, Clarke M, Picton C and Young T (2011) Meeting the four-hour deadline in an A&E Department *Journal of Health Organization and Management* **25**(6):606-624

The simulation model was developed and run by Dr Julie Eatock



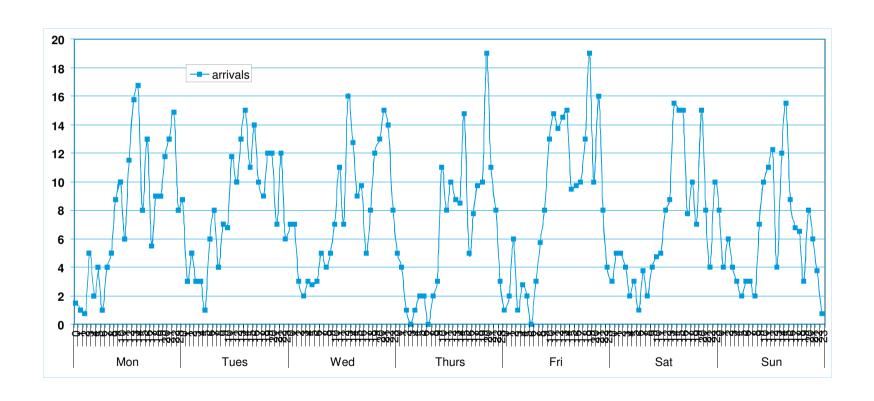






Arrivals

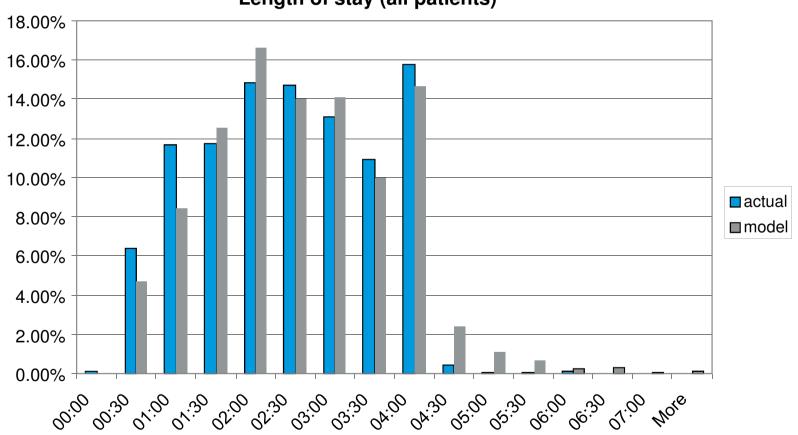




Results



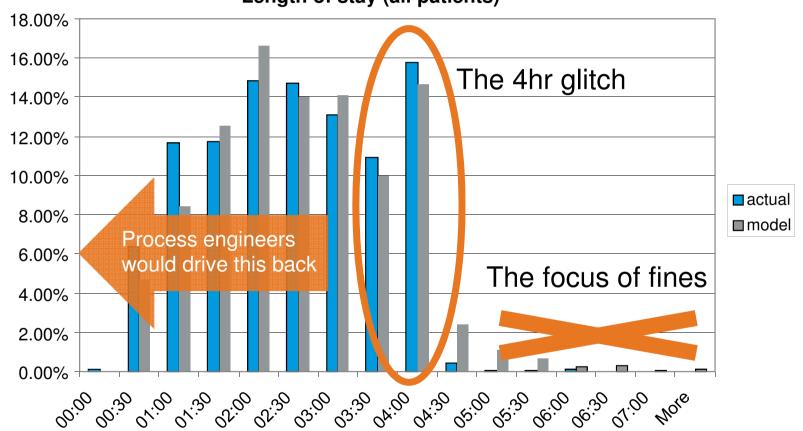
Length of stay (all patients)



Results







22/02/16 Predictive, productive, provision

Plus, The Cumberlab











Walk-through & mock-up

Training

Computer modelling at scale

Serious Games (e.g. trading-floors with commissioners and providers)

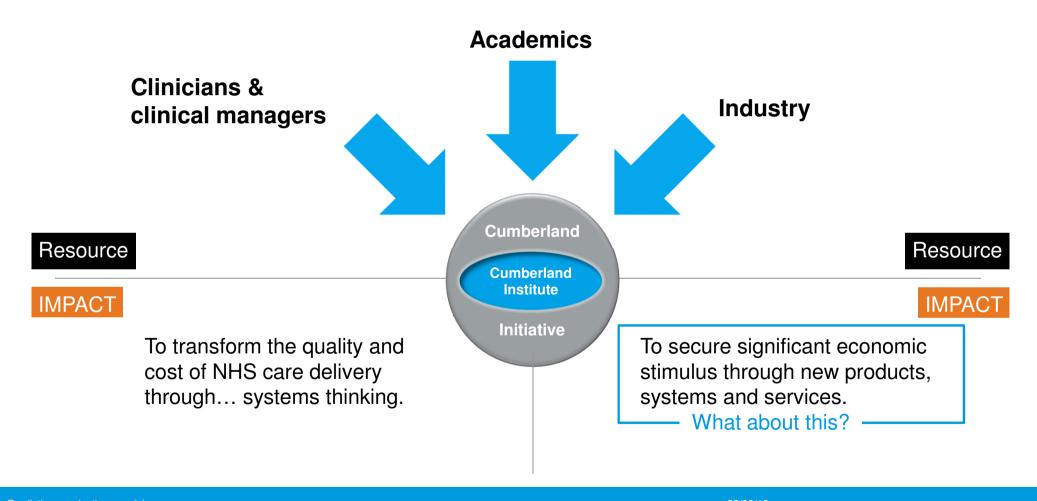
Cumberlab - ideas



Public Health Artwork by D4B Studio Data hub for exercise games Data aggregation exercises Top-100 research (how are the best centenarians doing)

What is our vision?





Cumberlab – the health & wellbeing agenda



Public Health Artwork by D4B Studio Data hub for exercise games Data aggregation exercises Wealth creation Interactive planning of new types of job Health industry hub • A place where commerce, clinicians and academics meet

What can we offer?



- Around 100 of the best brains and experience in healthcare operational research and engineering design in the UK (and spreading across the world).
- A significant academic, clinical and commercial footprint in healthcare, in Slough, but with a national reach
- Clinical, industrial and academic communities that have collaborated closely for the past 5 years.
- A central creative, neutral space the CumberLab



"There is no path; the path is made by walking"

With thanks to Dr Chris Manning



22/02/16 21