

The Federal e-Health landscape

Peter Sprivulis

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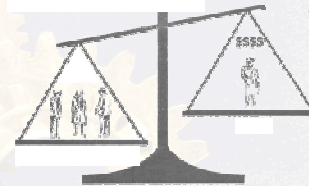
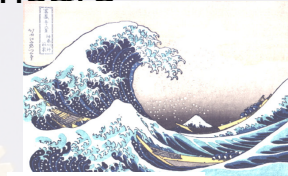
Outline

- The challenges facing Australian healthcare
- Role of e-health in the reform response
- The federal e-health story until now
- Current directions and (selected) issues

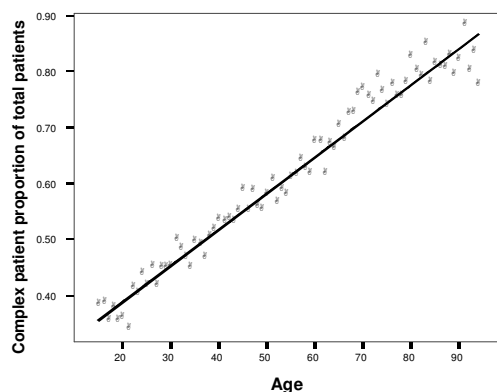
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The challenges faced by Australian Healthcare

- A demand tsunami
 - as workforce participation declines
- Disparities in healthcare access and appropriateness of use
- Inherent complexity
 - Leading to 'fractured' healthcare

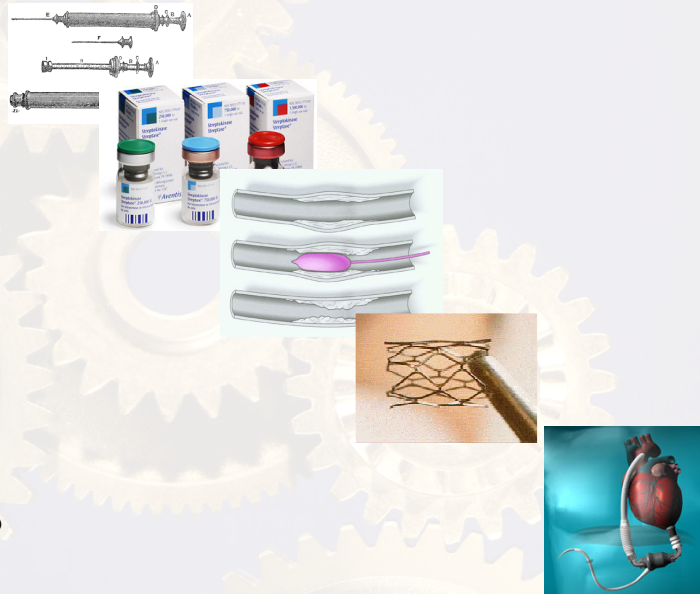


Age and healthcare resource use

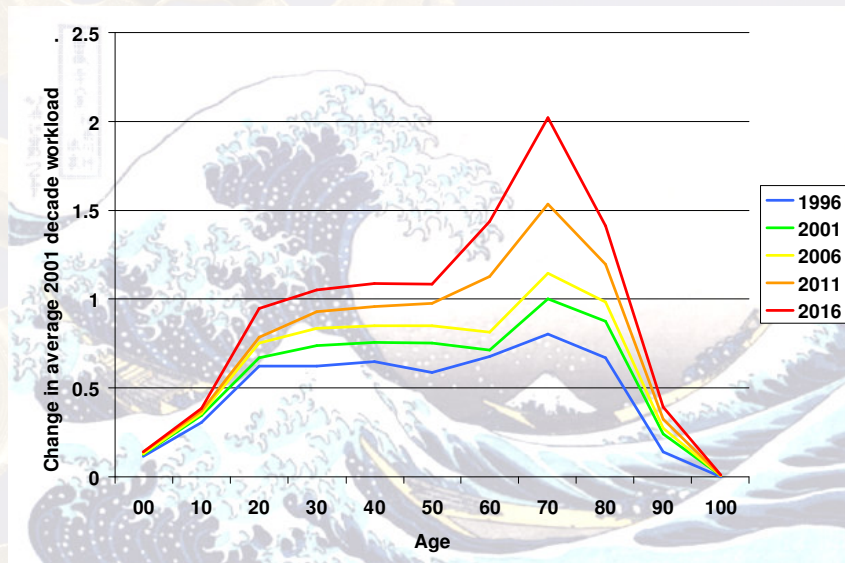


Technology – Heart Attack

- 1977
- 1987
- 1997
- 2007
- 2017 ?



The demand tsunami

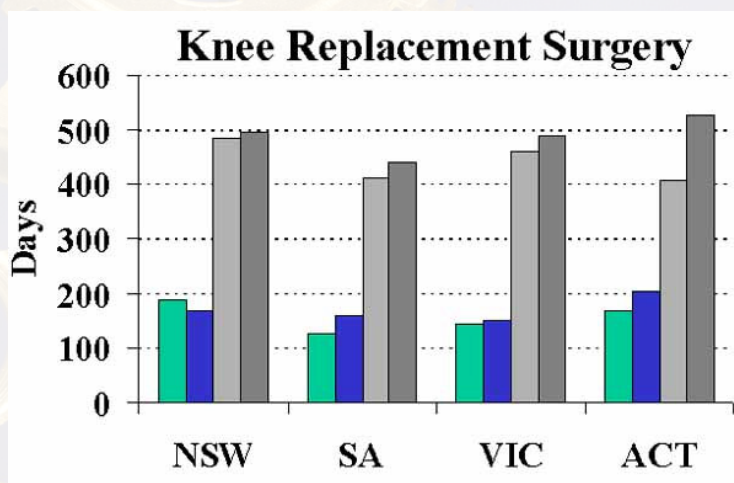


Responding to the tsunami



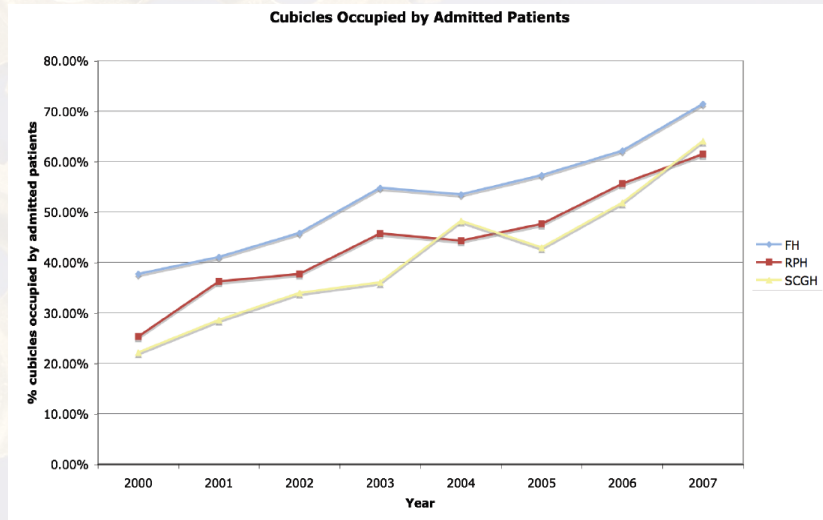
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Waiting list queues



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The supply hose is being kinked at the level of the hospital bed

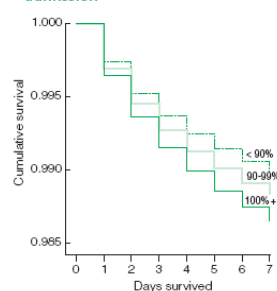


The ratio of free cubicles to occupied (blocked) cubicles has reversed from 3:1 to 1:3. We are trying to deal with a substantially higher workload in half the available space

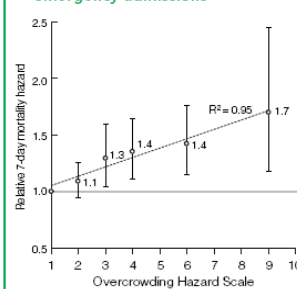
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Safety is being compromised

3 Seven-day survival* after emergency admission stratified by hospital occupancy on the day of admission



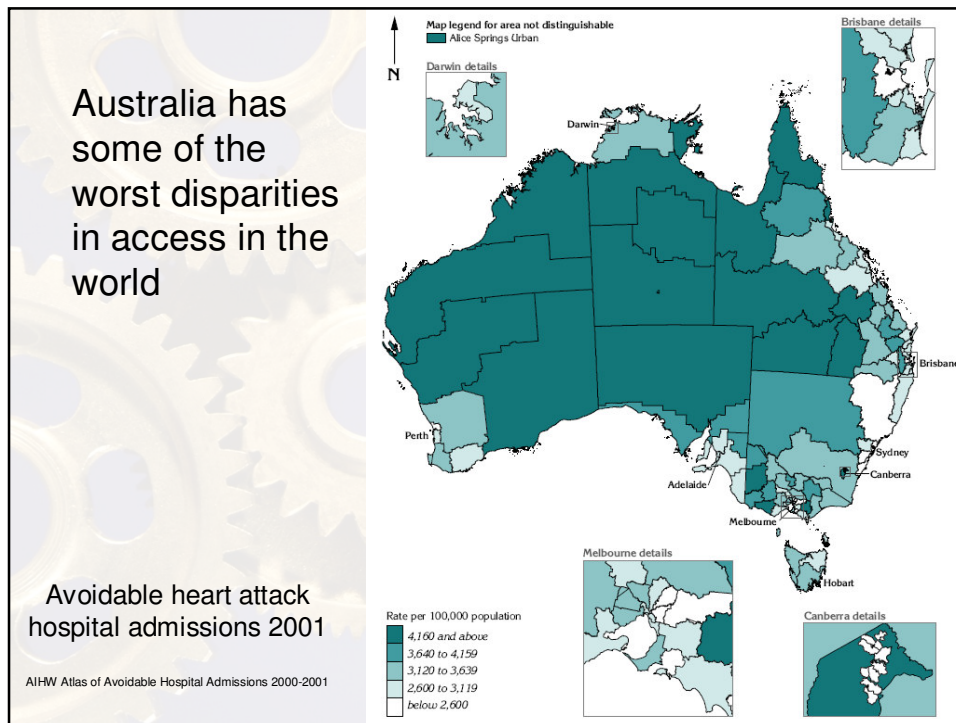
4 Relationship between the Overcrowding Hazard Scale and the 7-day mortality hazard for emergency admissions



Increased mortality hazard of $\approx 30\%$ operating at $\approx 100\%$ occupancy of 85%

Spirulis P, De Silva J, Jacobs I, Fraser A, Jelinek GA.
The association between hospital overcrowding and mortality among patients admitted via Western Australian emergency departments. MJA 2006;184:208-212

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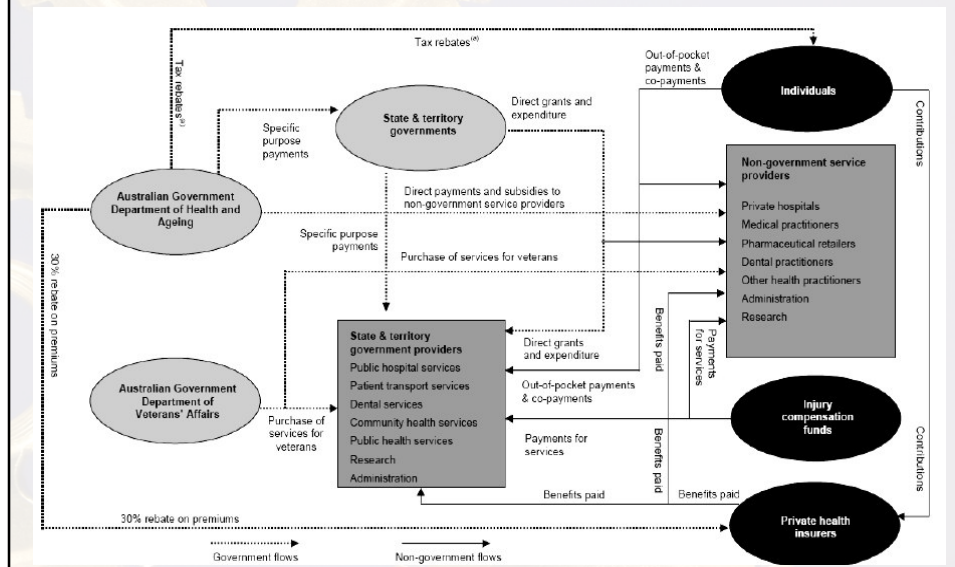


Fixing the problems is not easy: Australian healthcare is a complex machine

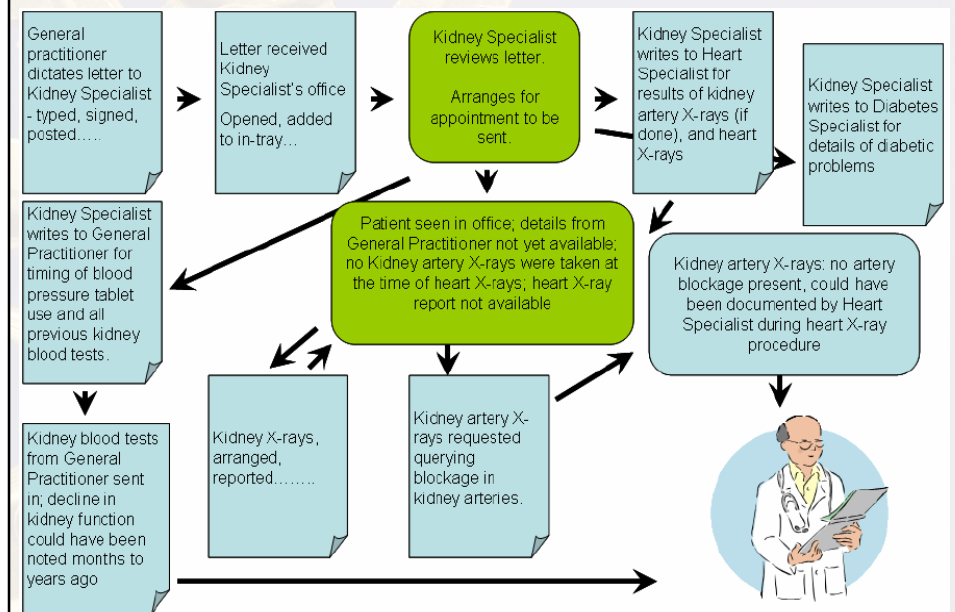


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Complex funding and delivery mechanisms



Complex information flows: eg referral



Efforts to reform the information flows
have not always been successful

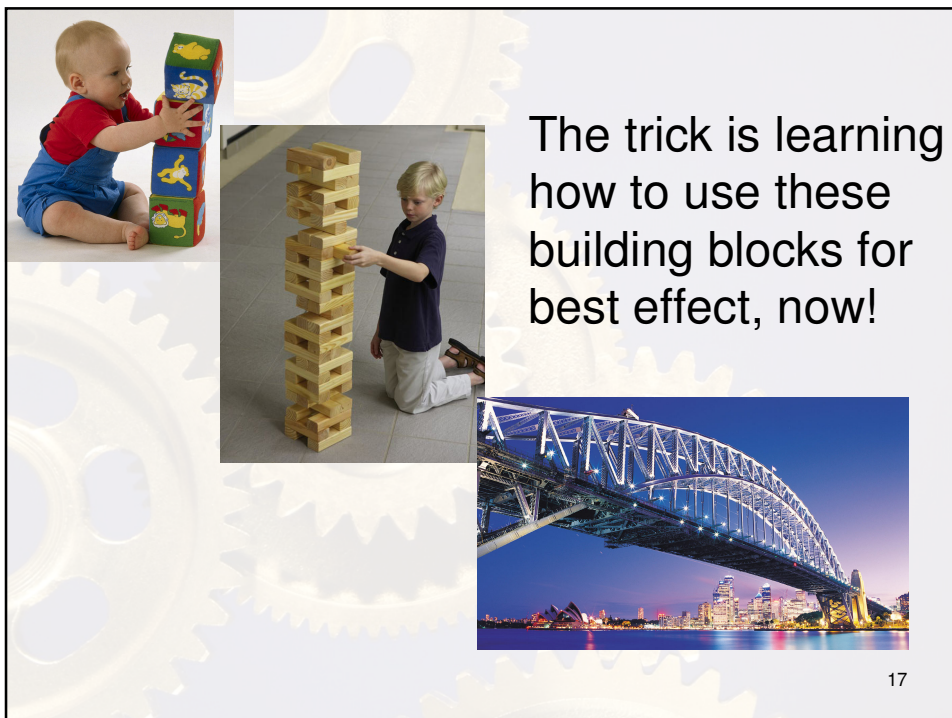


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NEHTA was formed to develop the building blocks
needed for high quality information sharing

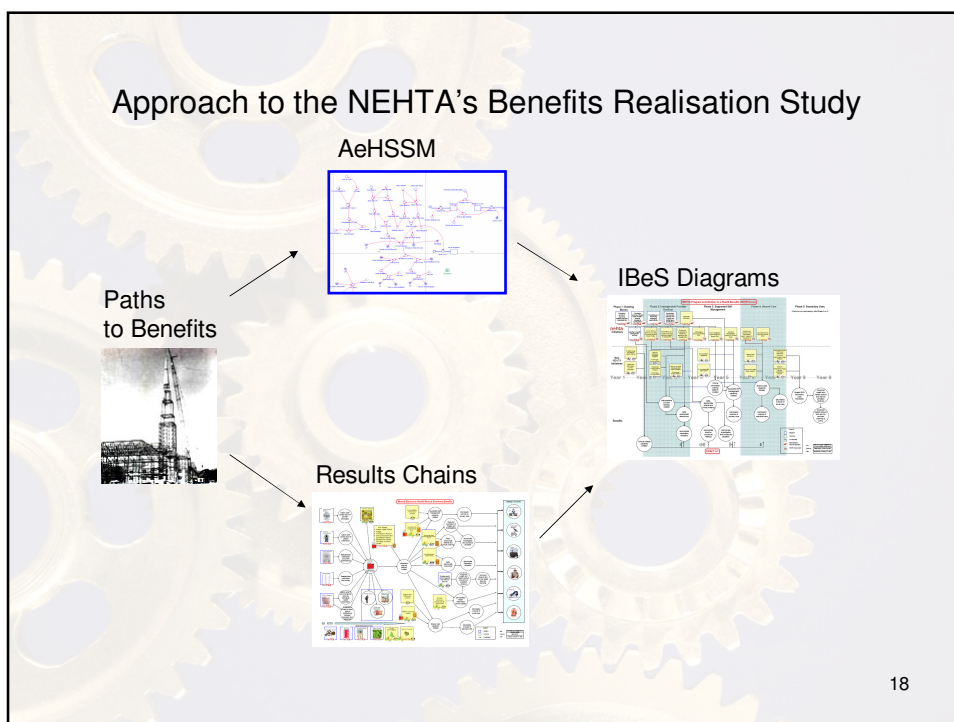


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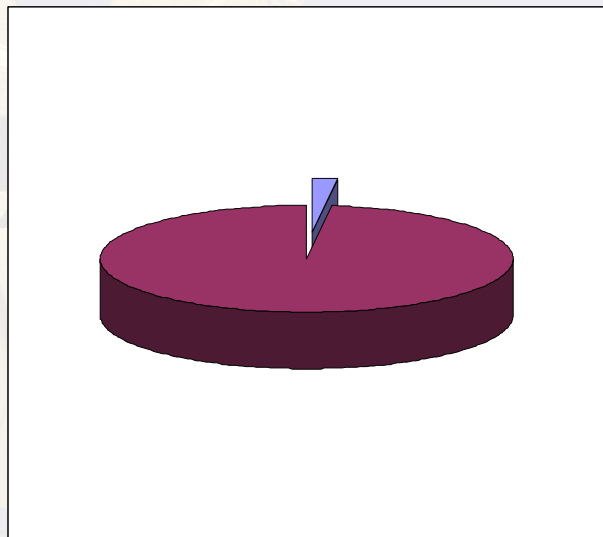


The trick is learning how to use these building blocks for best effect, now!

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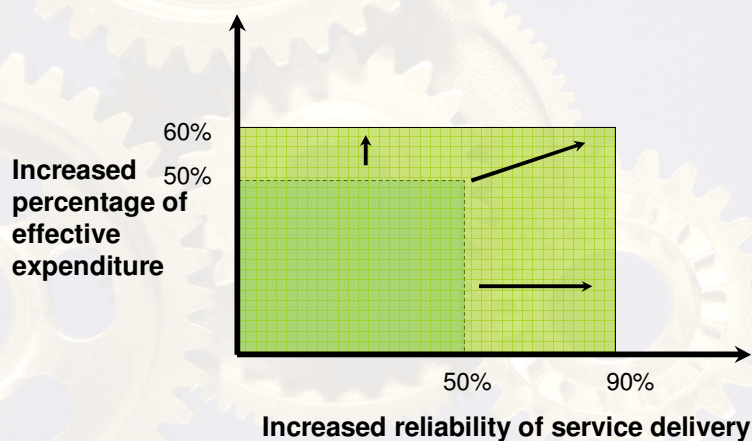


The investment required is 'non-trivial' yet 'near-trivial' in comparison to total healthcare expenditure



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Finding: The major quantifiable benefit is improved effective, reliable utilisation, largely due to better consumer and clinician decision making



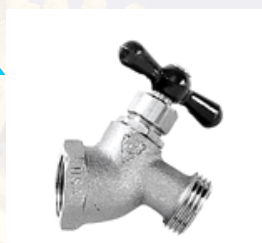
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So what are the key e-health enablers of reform?



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E-Referral



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E-Prescribing and medication management



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Supported self managed care



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Shared care of complex disease



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An information sharing platform is required to support 'all this'



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So what is an electronic health record?



From a benefits realisation perspective, an EHR is really a *compendium* of information services for which a range of views are provided, according to specific needs and permissions, having due regard to health consumer privacy.

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The information can and should be used to support system surveillance and learning



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So, what is Australia doing about it?



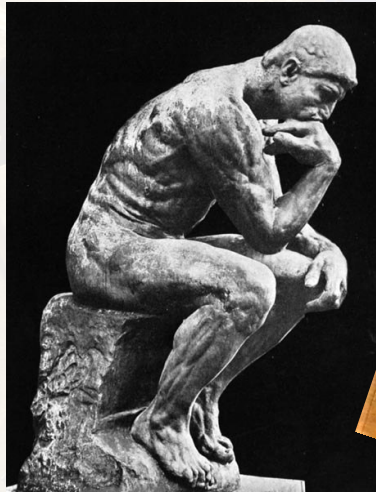
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Addressing governance



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Considering health record structures, funding & policy



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'Packaging' national e-health services and specifications



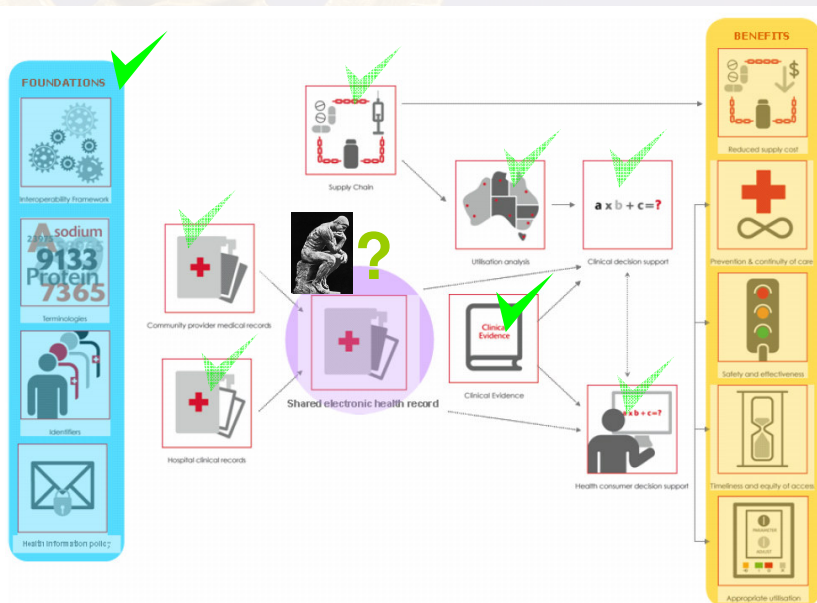
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Building critical infrastructure



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A summary of progress so far



Issues: Primary care connectivity

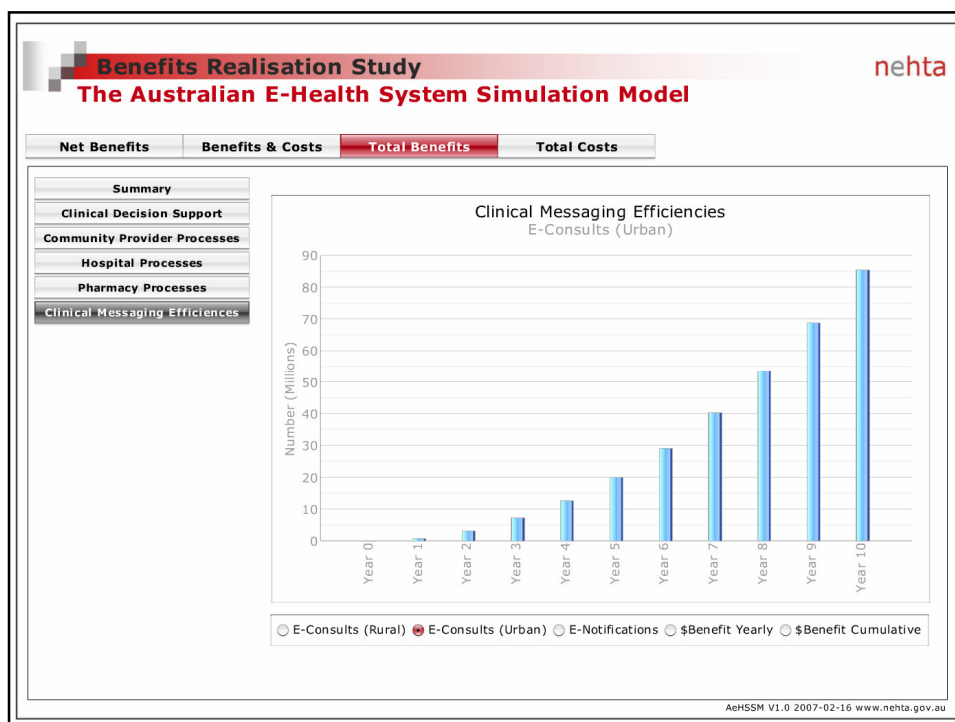


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A genuine business driver that enables
supported self managed care is needed



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Issues: The Great Funding Divide

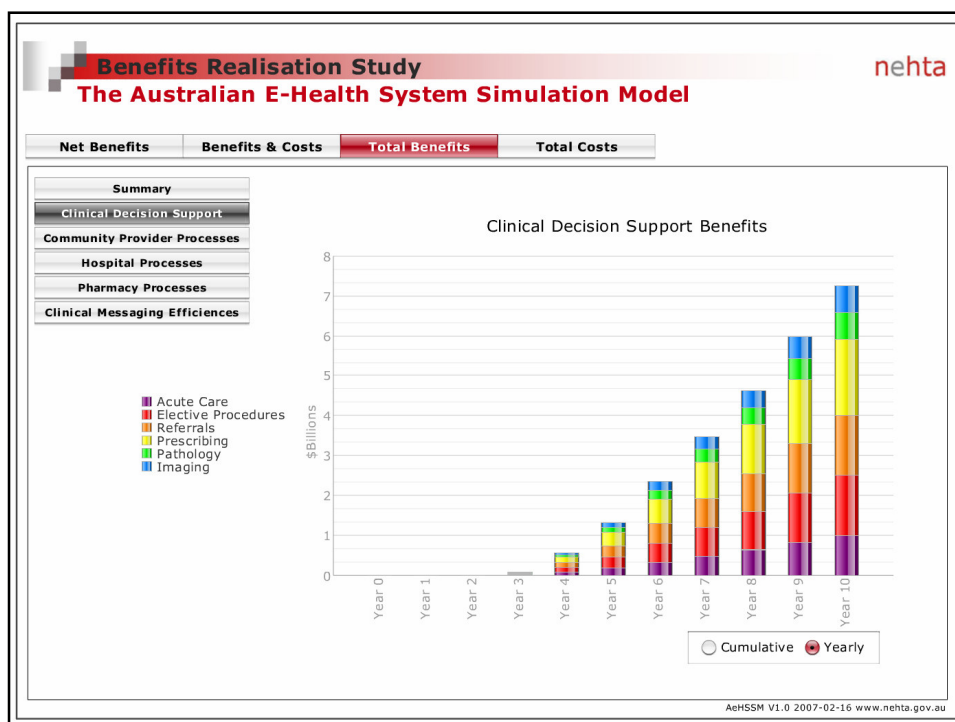


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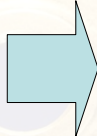
Contributes to State/Territory Health 'distraction'



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Issues: A national approach to reducing the change management risks



netha e-Health Services

Effective,
Reliable
Healthcare

New...

Edit...

Delete

Make Default

☒ Enable Automatic Sign-in

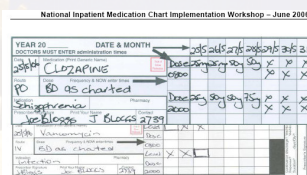
OK

- One of e-Health's greatest benefits is in 'hard wiring' the desired clinical decision or action as the DEFAULT decision or action

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Examples of where 'defining the default' is needed:

- Inpatient prescribing
- Inpatient dispensing
- Inpatient and outpatient referral, consultation and response
- Clinical handover



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Conclusions

- Australian healthcare is under stress
- Several reforms are needed to improve this situation
- A coherent E-Health path forward that supports the reform agenda has been identified
- The path mandates investment in national e-health infrastructure, including EHRs
- Coordination of E-Health investment with broader policy & change management initiatives will be critical to success

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