



Rhys Francis

Director, High Performance Scientific Computing
Manager, APAC Grid Program

CSIRO

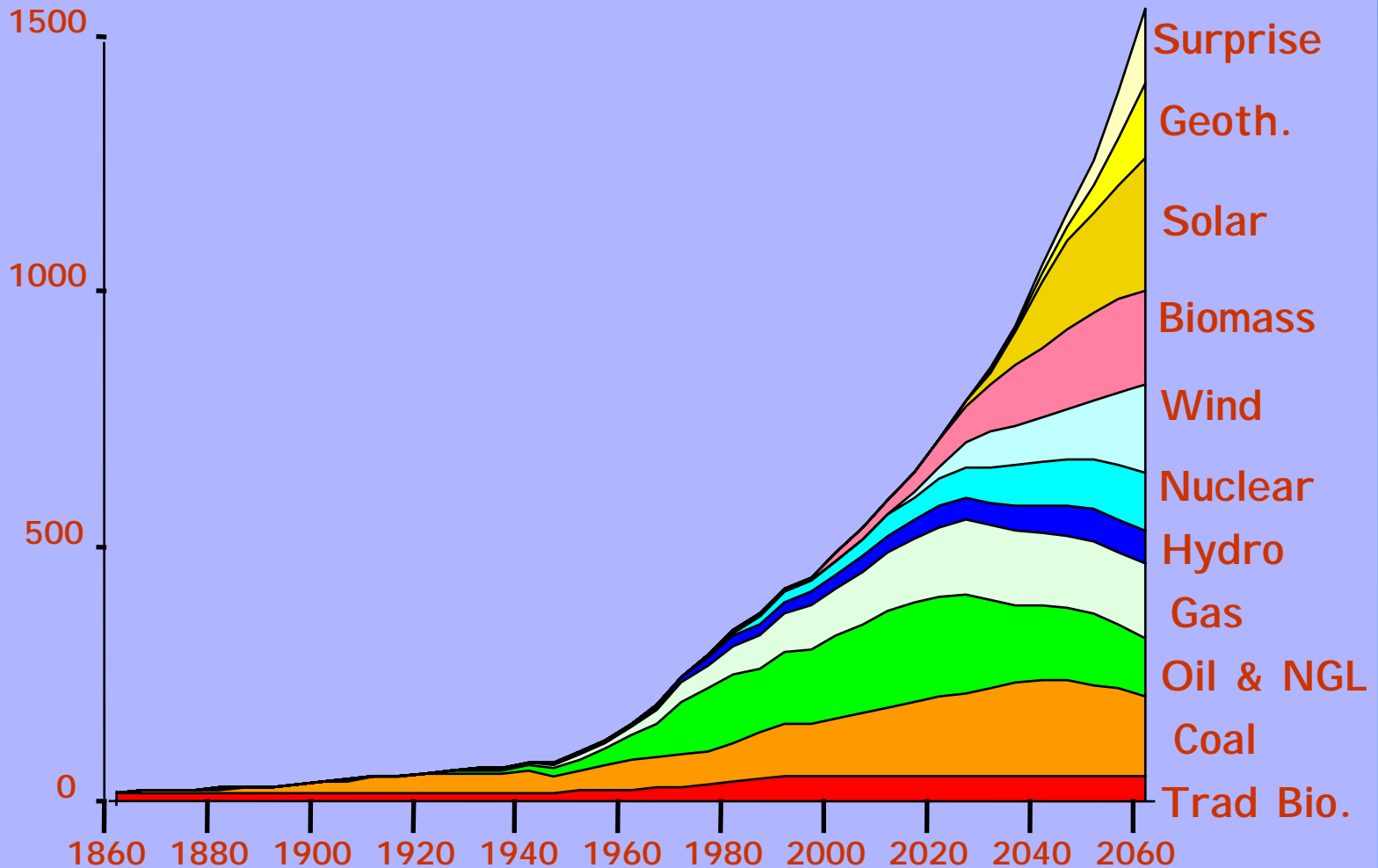
Outline

- Trends are real (global examples)
- Factors driving ICT
- What is likely by 2015
- What is coming 'round the corner'
- Scenarios - visions of the future

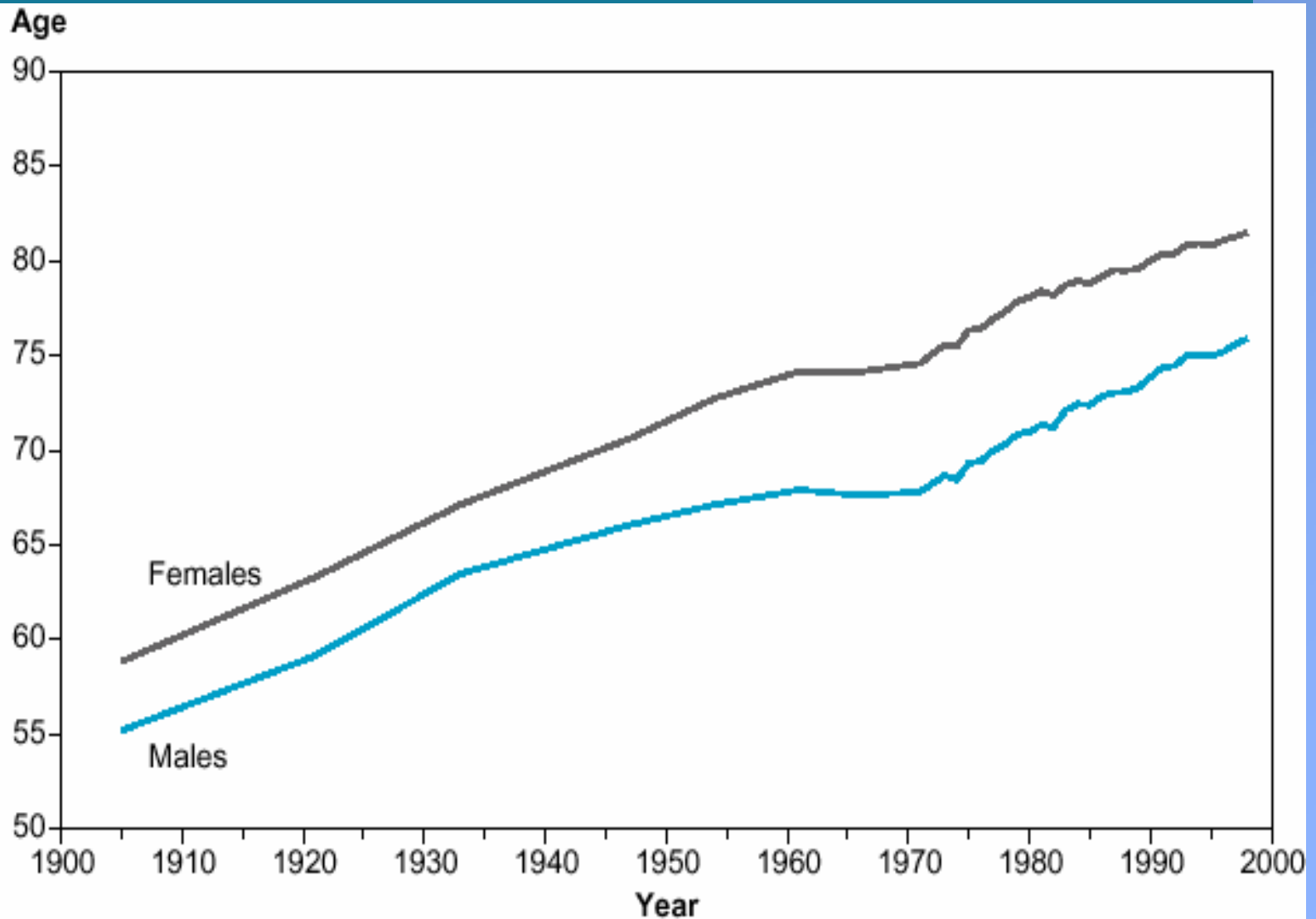


Global Energy - Shell Scenario

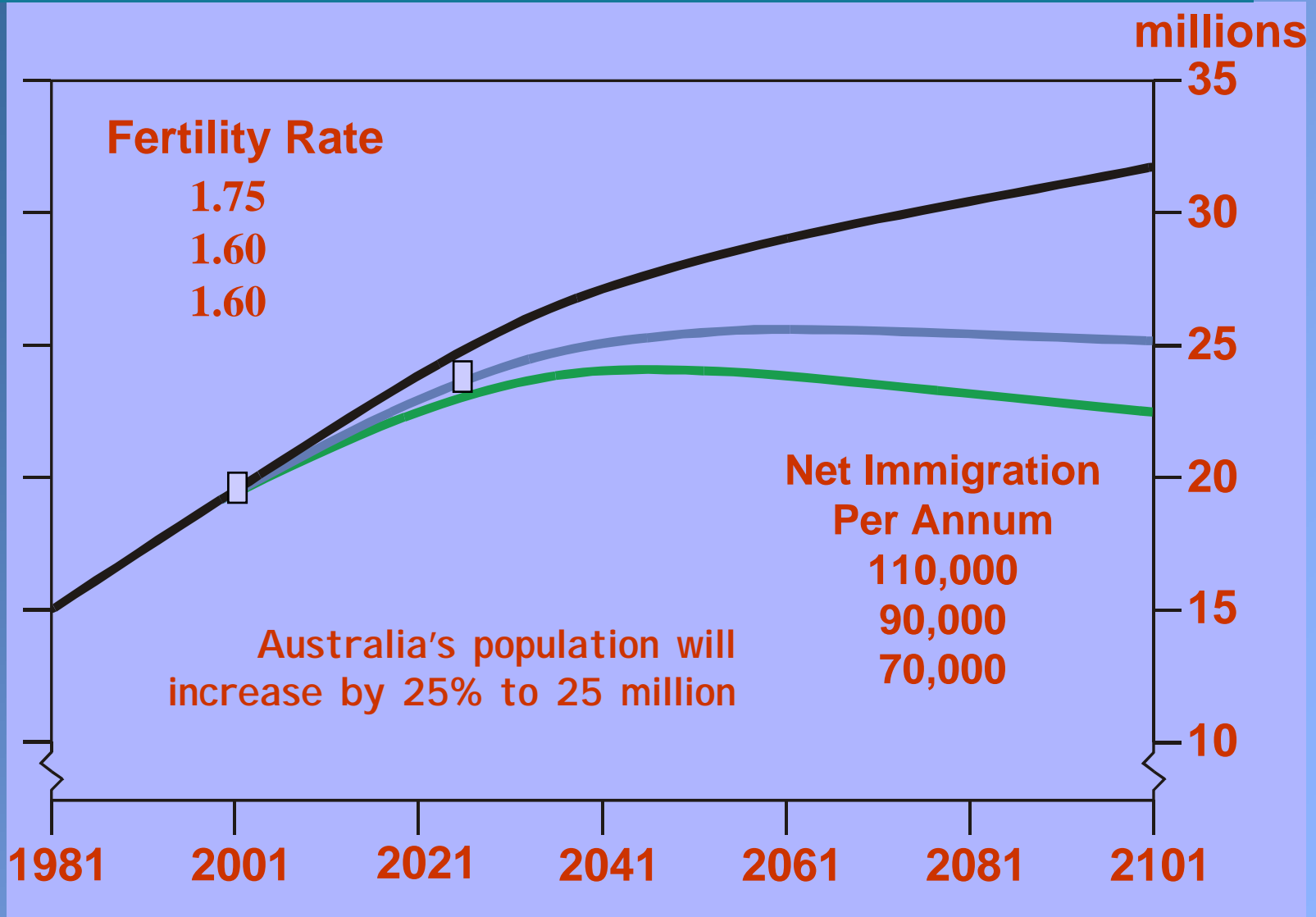
exajoules



Life Expectancy 1905-1998



Total Population of Australia





THE WORLD'S LIGHTS AT NIGHT.
On the basis that energy use scales with GDP, this image is a composite view of population and wealth on planet Earth.

Why Does ICT Matter?

Our society was shaped by a truth:
only people process information
Now, ICT gathers and processes
information faster, more reliably
and in inhuman quantities

Effects include:

- economic globalisation
- integrated supply chains
- remote monitoring and control
- entirely new knowledge
- an emerging inhuman cyber world

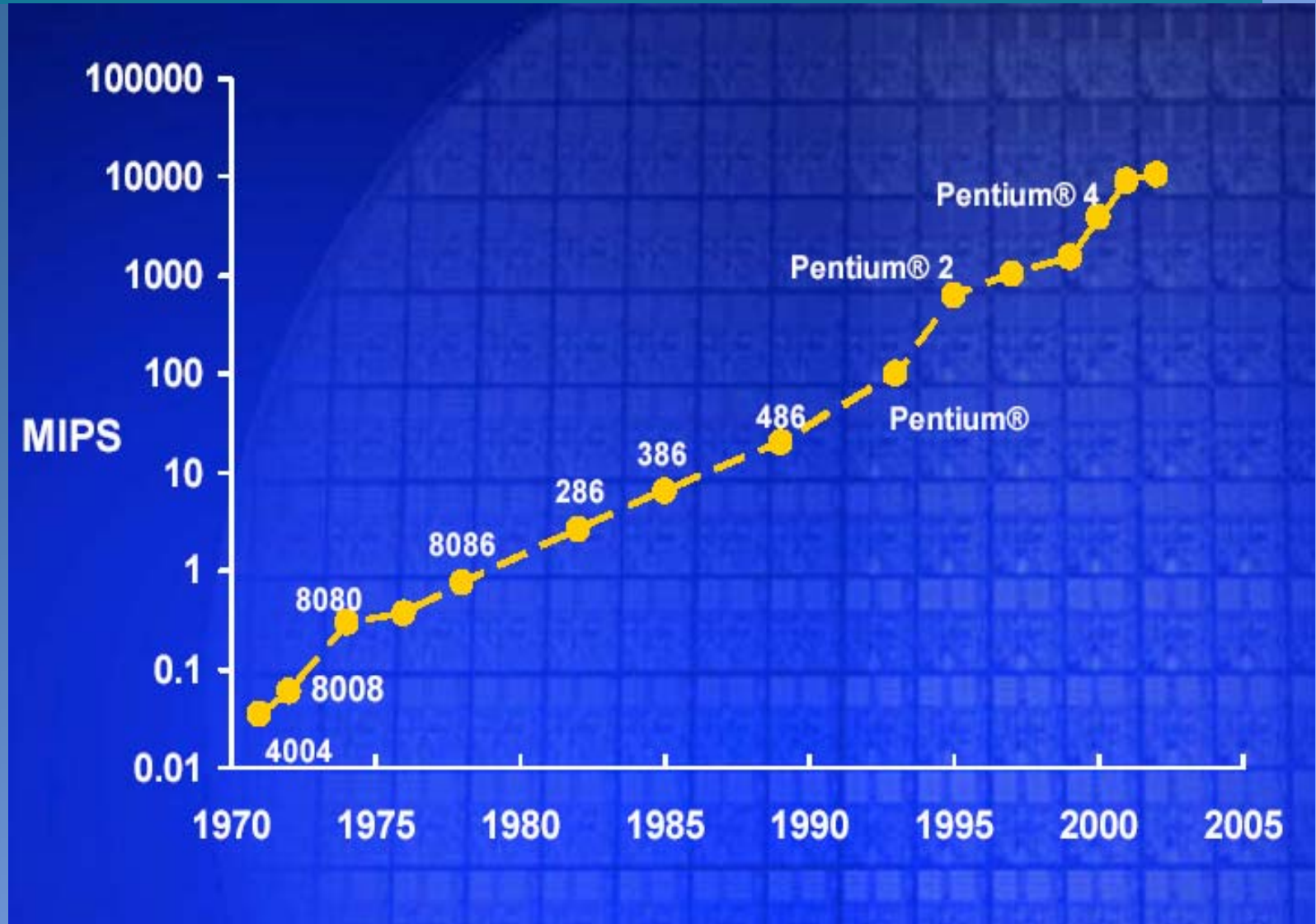


Factors to 2010

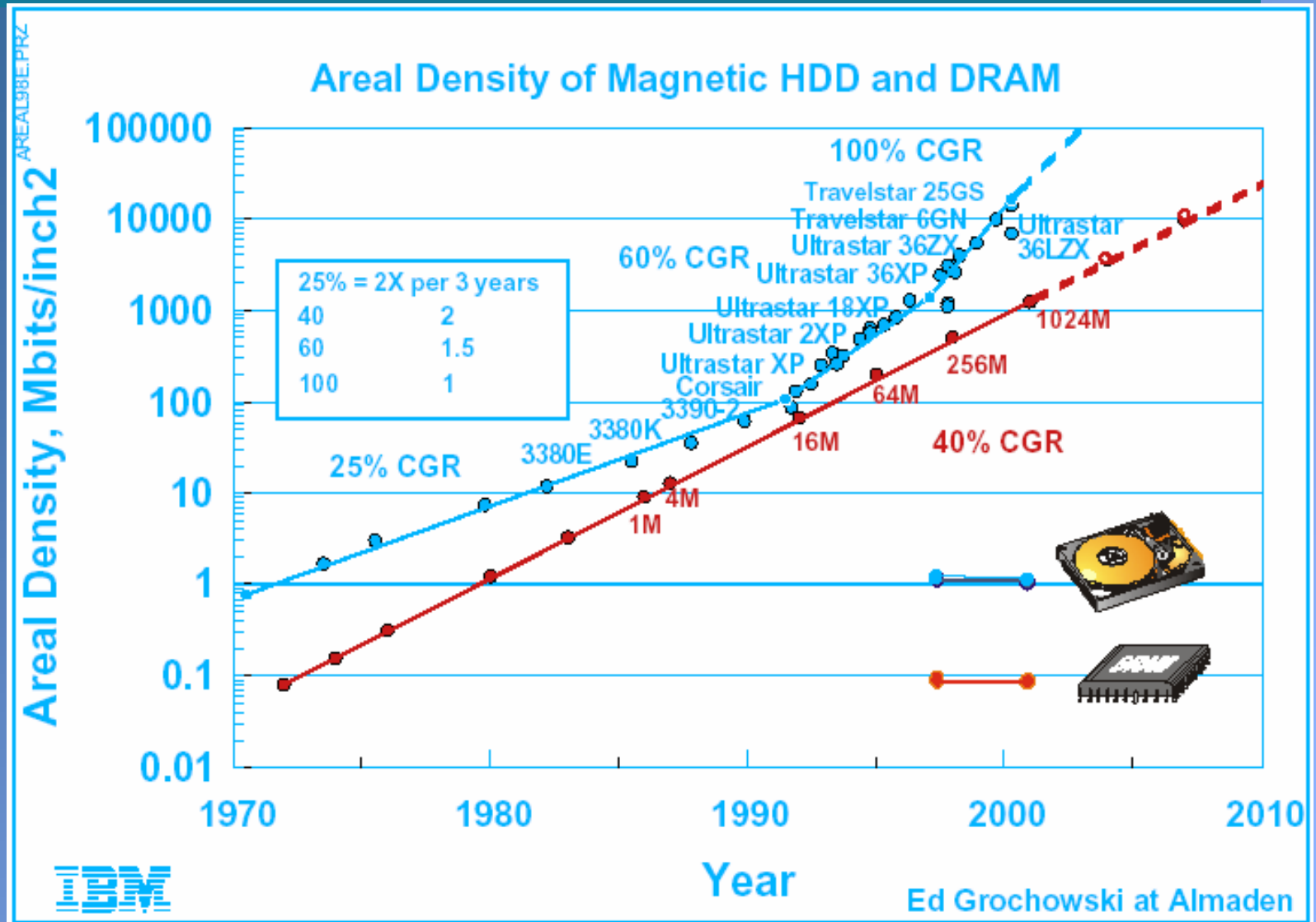
- Computing power (Moore's law, storage density, clock speed)
- Connectivity (Internet, photonics, bandwidth, mobile, wireless)
- Interface (speech, 3d projection/sound, haptics, non-rigid displays)
- Products (smart appliances, ubiquitous computing, simulations, robots)
- Complexity (robustness, seamlessness, self-organisation, grids)



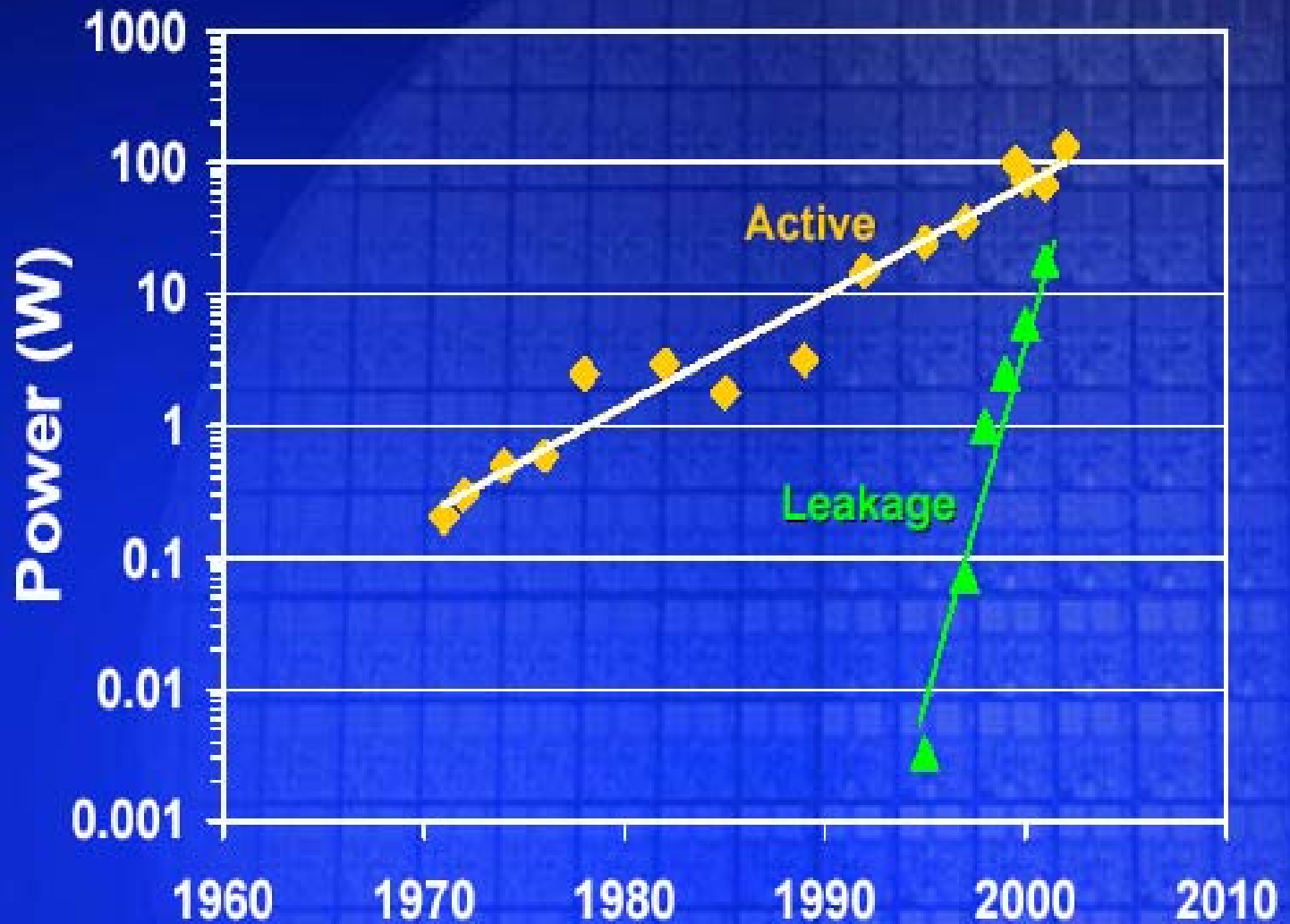
Moore's Law



Storage is Without Limit



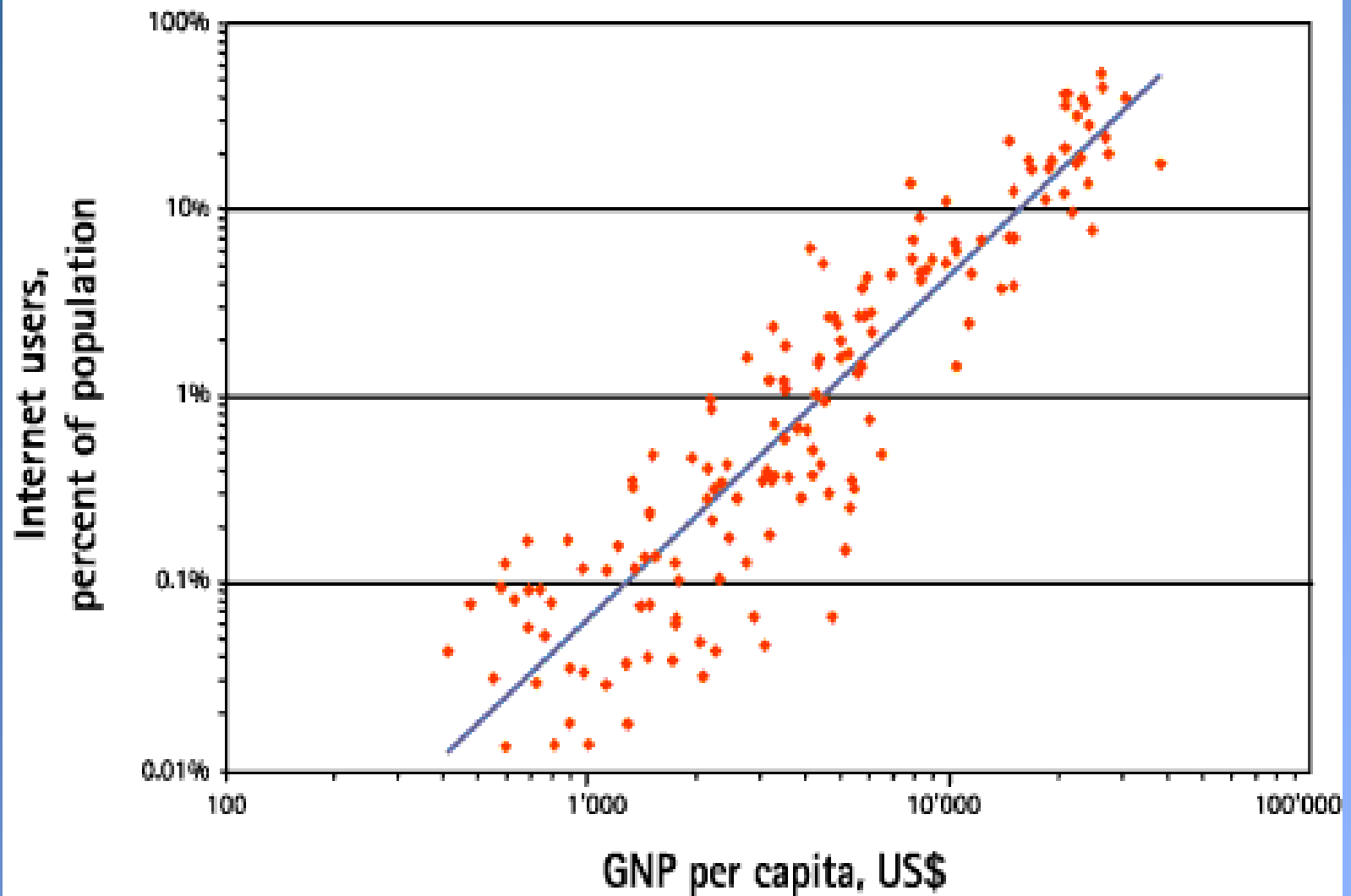
Heat is a Problem



The World is Connecting



The Wealthy Web



Outline - The 2010 View

- Trends are real (global examples)
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By 2015

- Computers are x1000 more capable
- A majority of people in the world are connected
- Advanced 3d and voice interaction is affordable
- Routine information tasks are automated
- Smart devices have proliferated
- Service industries are re-structuring



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