

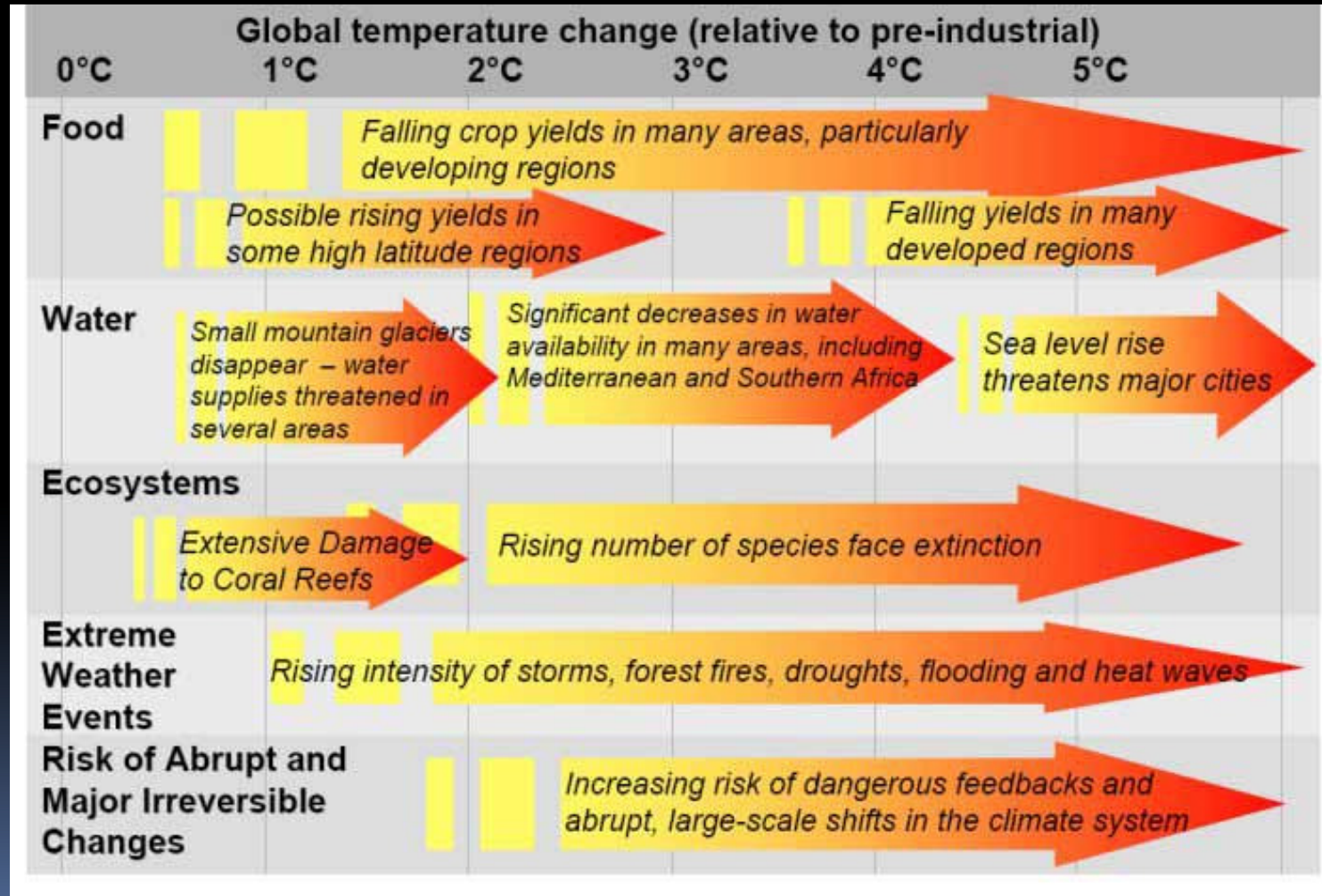


APSE Conference: June 2011
Professor Jim Kitchen



SUSTAINABILITY: DUTIES AND LEADERSHIP

Climate Science

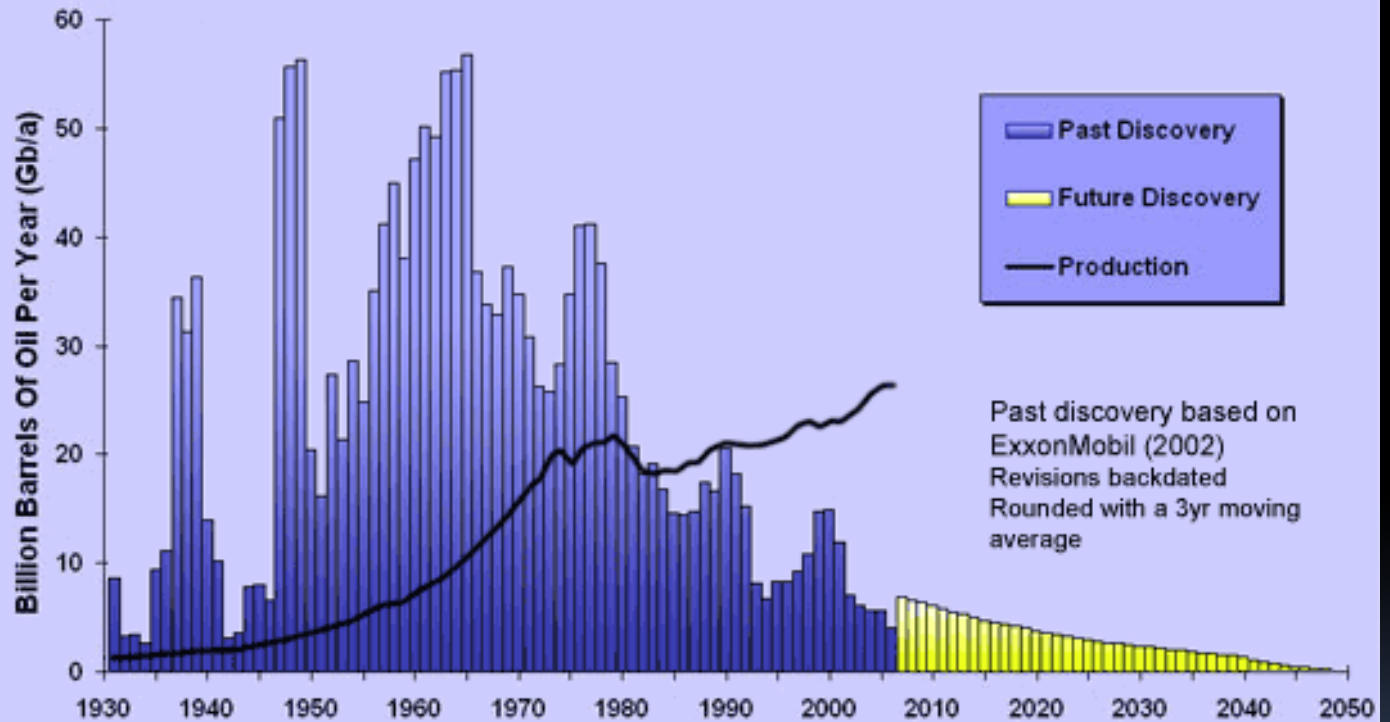


Warning: extreme weather ahead



The Oil Crunch

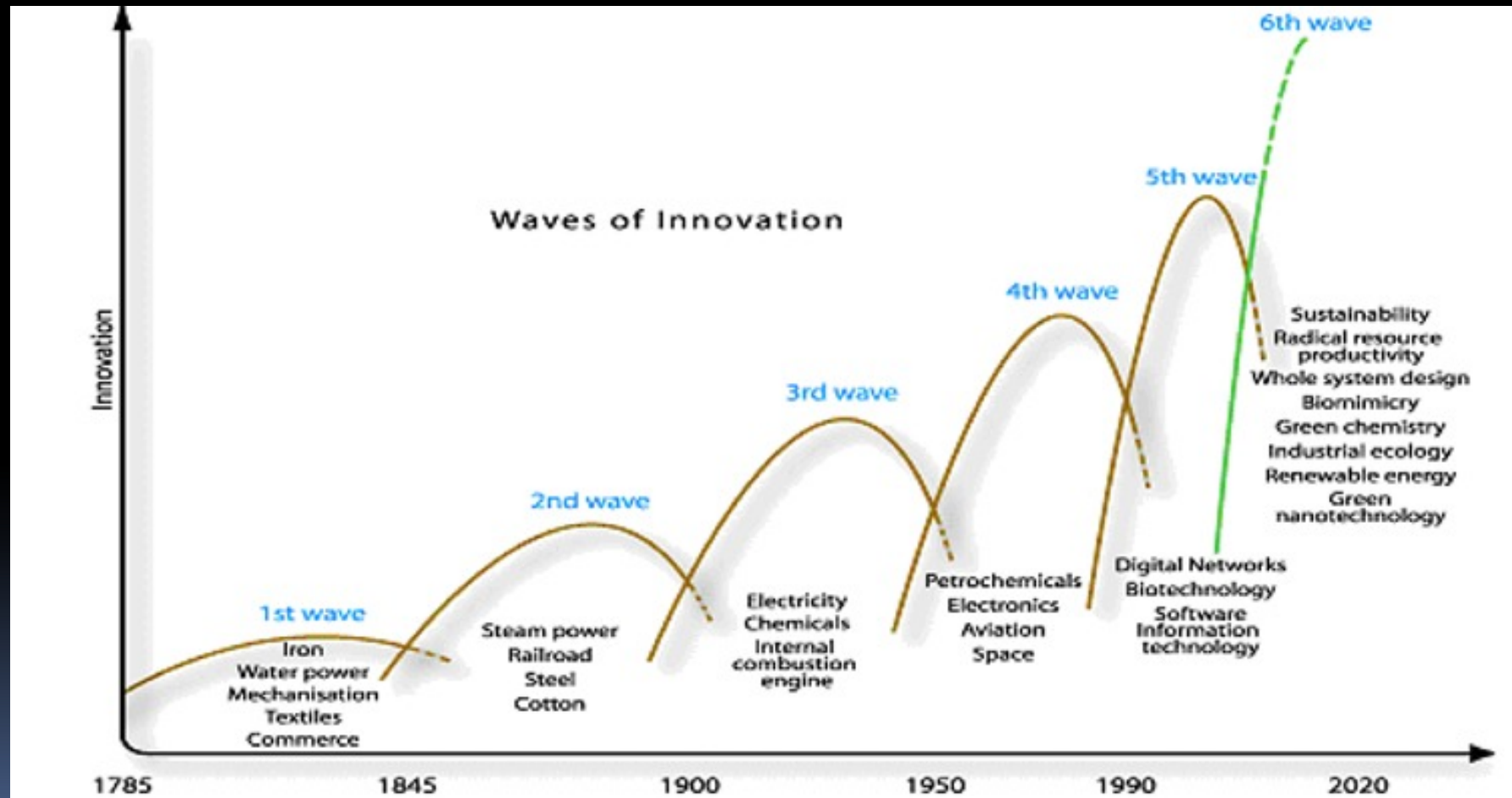
THE GROWING GAP
Regular Conventional Oil: Discovery & Production



So what?

- More weather-related clean-up costs
- More volatile energy costs
- Higher food prices
- Implications for social stresses
- Policy pressures for cleaner development
- Opportunities of innovation

The Waves of Innovation



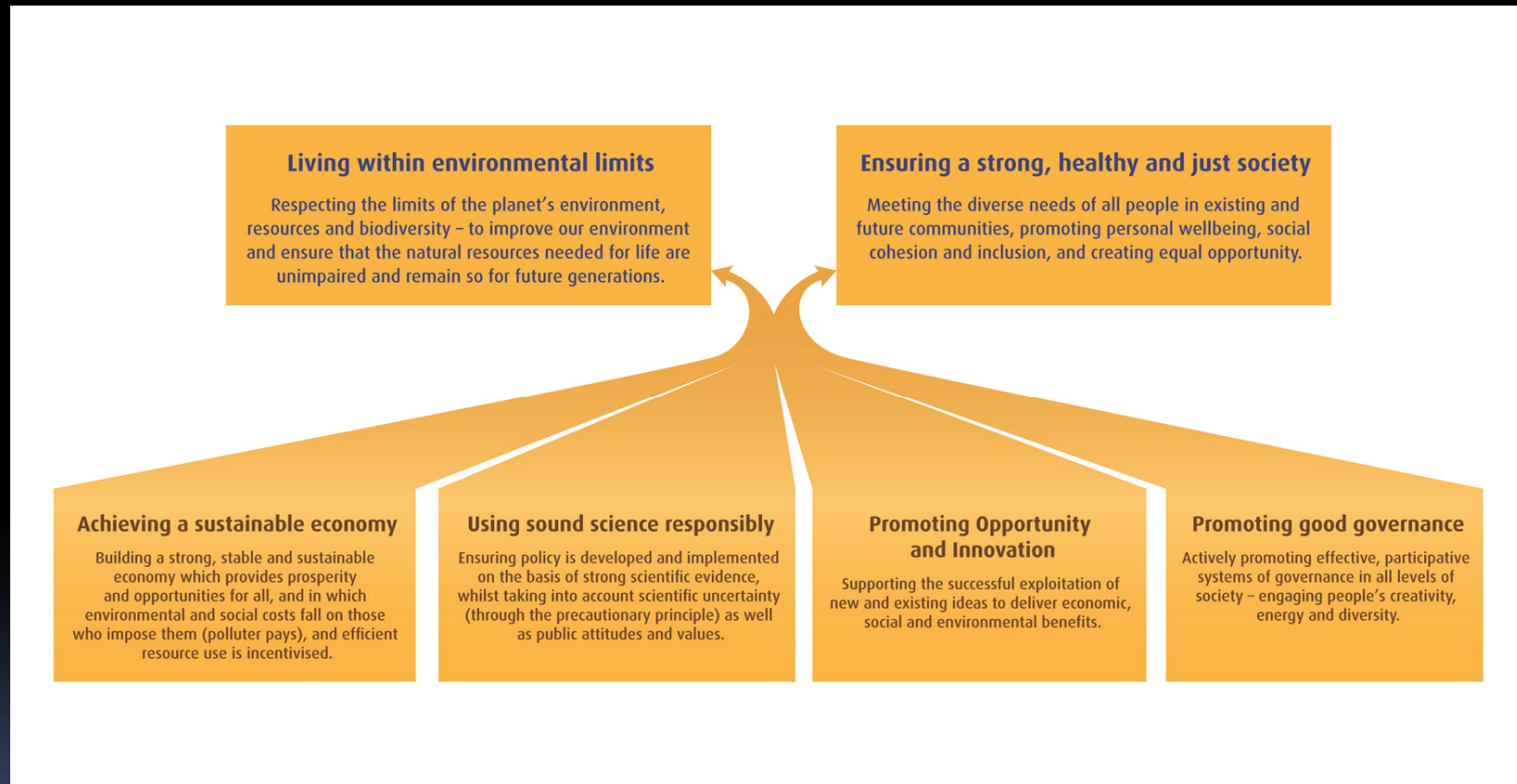
UN Conference – Rio +20



RIO+20

United Nations
Conference on
Sustainable
Development

Northern Ireland's response



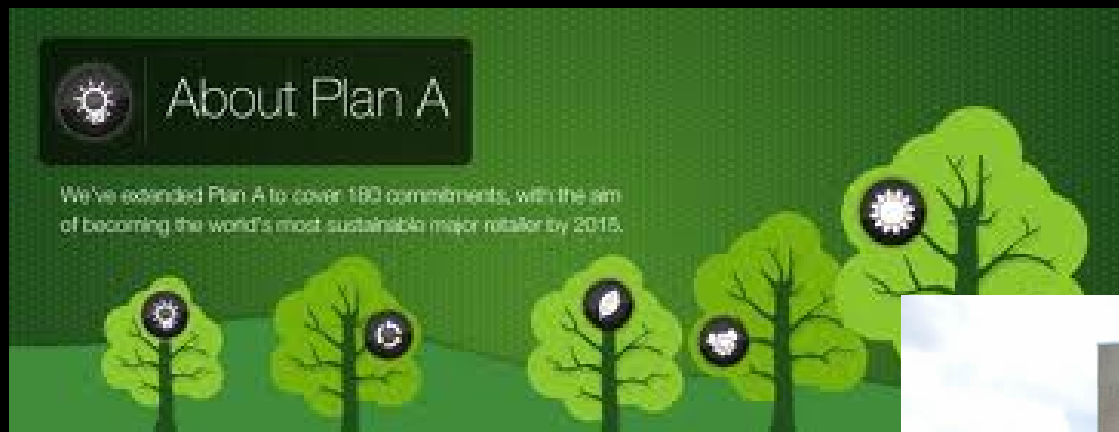
Obligations and Options

- The NI SD 'duty'
 - Guidance coming soon?
- Planning Act (NI) 2011
 - Paving the way for RPA
- Housing (Amendment) Act 2011
 - New powers on energy efficiency

Some Councils are well on the way



Inspiration from Industry



Leadership



YOU?



Positive Deviants