"A proposed development of the Internet in which everyday objects have network connectivity, allowing them to send and receive data" (Oxford English Dictionary)
But what is all about?

Wearable Technologies

eHealth and Telemedicine
But not just that…
The IoT market in figures...

$7.1 trillion in volume of sales

Number of Connected Objects Expected to Reach 50bn by 2020

Penetration of connected objects in total ‘things’ expected to reach 2.7% in 2020 from 0.6% in 2012

Source: CCS, 2013
Beecham Research - view of the World

M2M World of Connected Services
The Internet of Things
The Connected Car

100% Of cars will be connected by 2025

75% Of cars on the road will be autonomous by 2035

Source: 1GSMA 2013, 2Navigant Research 2013
The ecosystem
What legal issues?

1. Data protection and privacy
2. Telecoms
3. Life science obligations
4. Liability of providers
5. Intellectual property
6. Cybercrime/security
Privacy - Processing of users' data

- What data protection law applies?
- What consent and authorizations are required? In the case of health or biometric data?
- What data can be accessed?
- Transfer of personal data outside Australia
- Anonymised data?
  - Ben Grubb, Telstra and Metadata
Privacy - Security and sanctions

- What security measures shall be adopted?
  - strict measures depending on processed data
  - security/privacy by design?
  - response to data breach?
  - mandatory data breach notification?
- Civil penalties - $1.7m for corporation; $340k for individuals
Telecom - What issues?

- Device certification – regulator, industry standards, carrier requirements
- Usage of allocated spectrum
- Interconnection, interoperability
- Numbering scarcity and IP addresses (IPv4 to IPv6)
Life science obligations

- Is the software/hardware a medical device?
  - What obligations are triggered and how to treat upgrades?

- Sensitive Information
Product liability issues

- Product liability
- How to identify the liable entity?
- How are/will the supplier and the buyer be protected?
- ACL application
Battle for patents on wearable tech

- Recent cross licence agreements for existing and new patents between Samsung and Google/Ericsson
- Acquisition by Google of patents
- Jawbone alleged patent infringement against Fitbit

Patentability of wearable "gestures"…

- Recent Google US patent on "heart gesture"
Cybercrime - What risk and liabilities?

- Security measures required under privacy regulations
  - Internal policies on usage of devices (BYOD / BYOW)
- Emergency response plan
- Potential board liability
- Potential reputation risk
- Insurance coverage?