



THE INTERNET OF THINGS

*Peter Jones, Partner
June 2015*

TECHLAW AUSTRALIA 2015

"A [proposed] development of the Internet in which everyday objects have network connectivity, allowing them to send and receive data" (Oxford English Dictionary)

Wearable Technologies



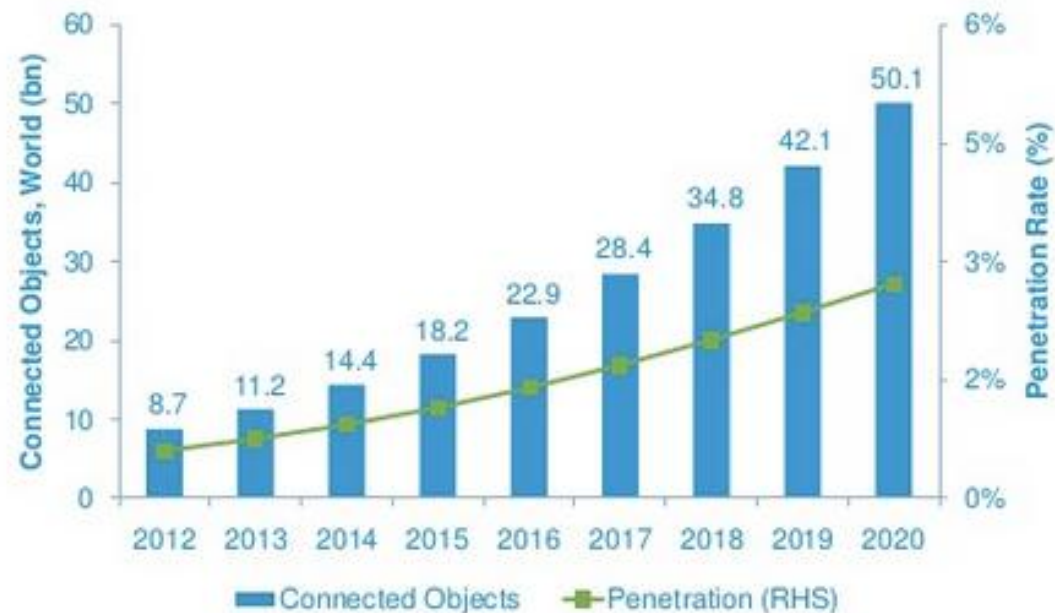
eHealth and Telemedicine



The IoT market in figures...

\$ 7.1 trillion in volume of sales

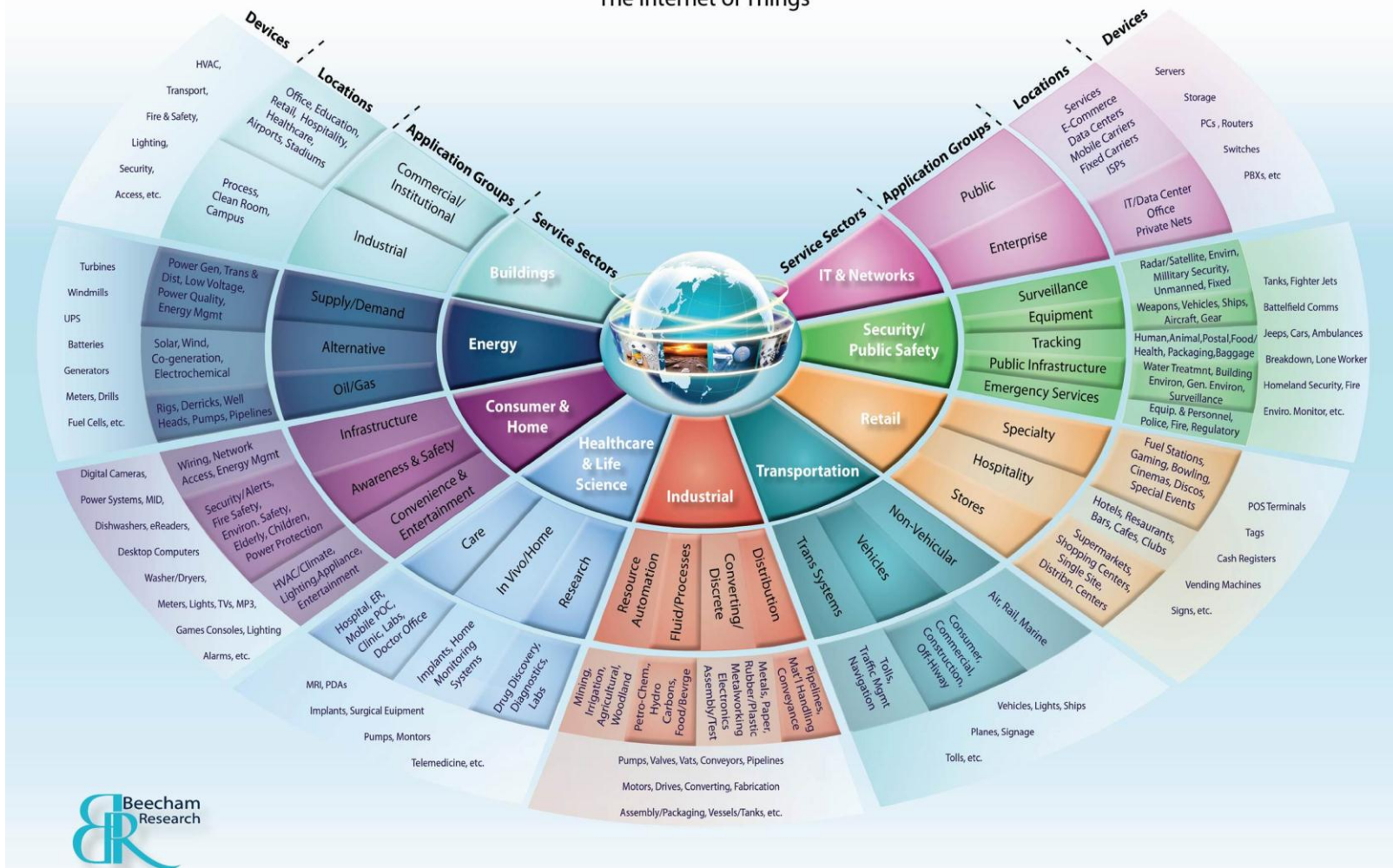
Number of Connected Objects Expected to Reach 50bn by 2020



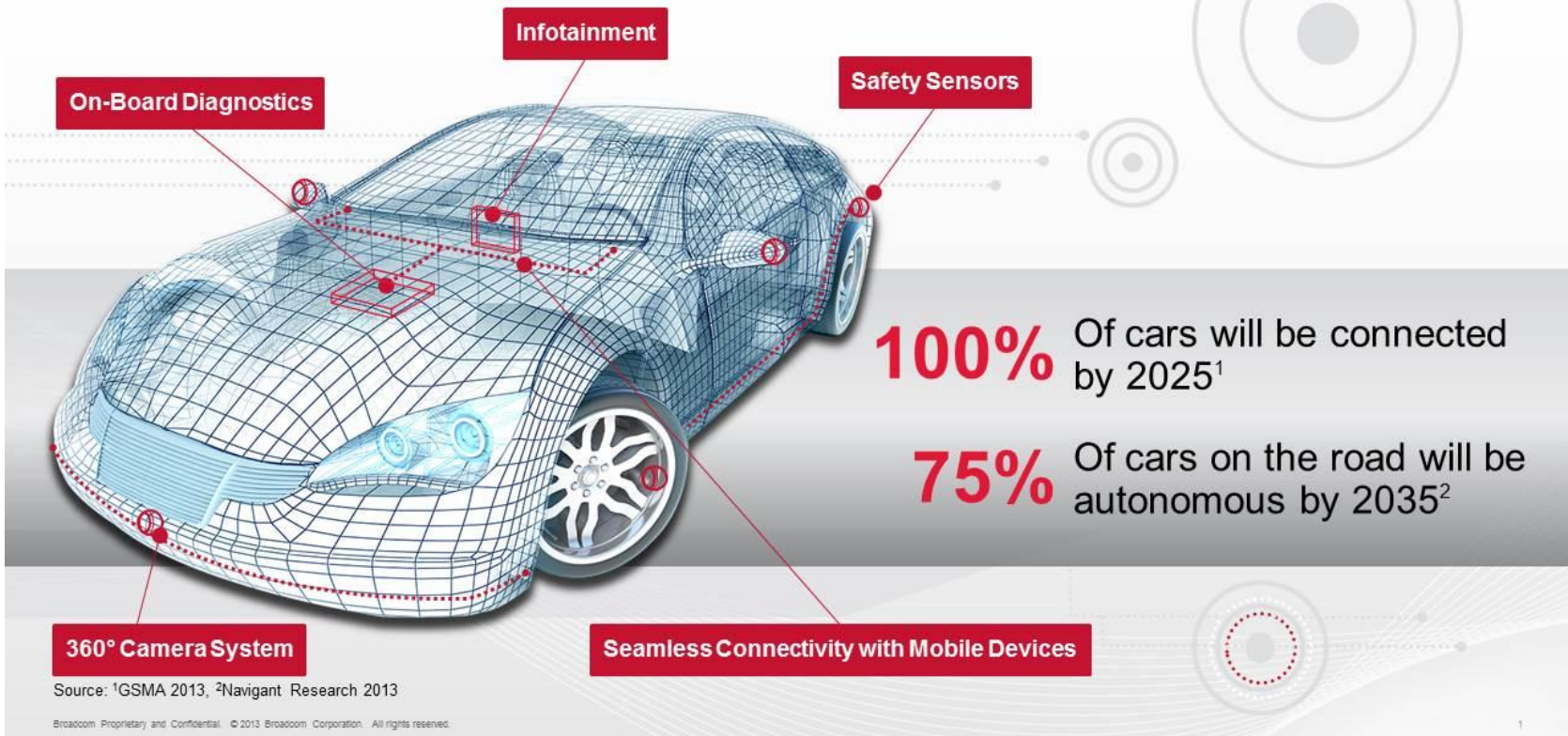
Penetration of connected objects in total 'things' expected to reach 2.7% in 2020 from 0.6% in 2012

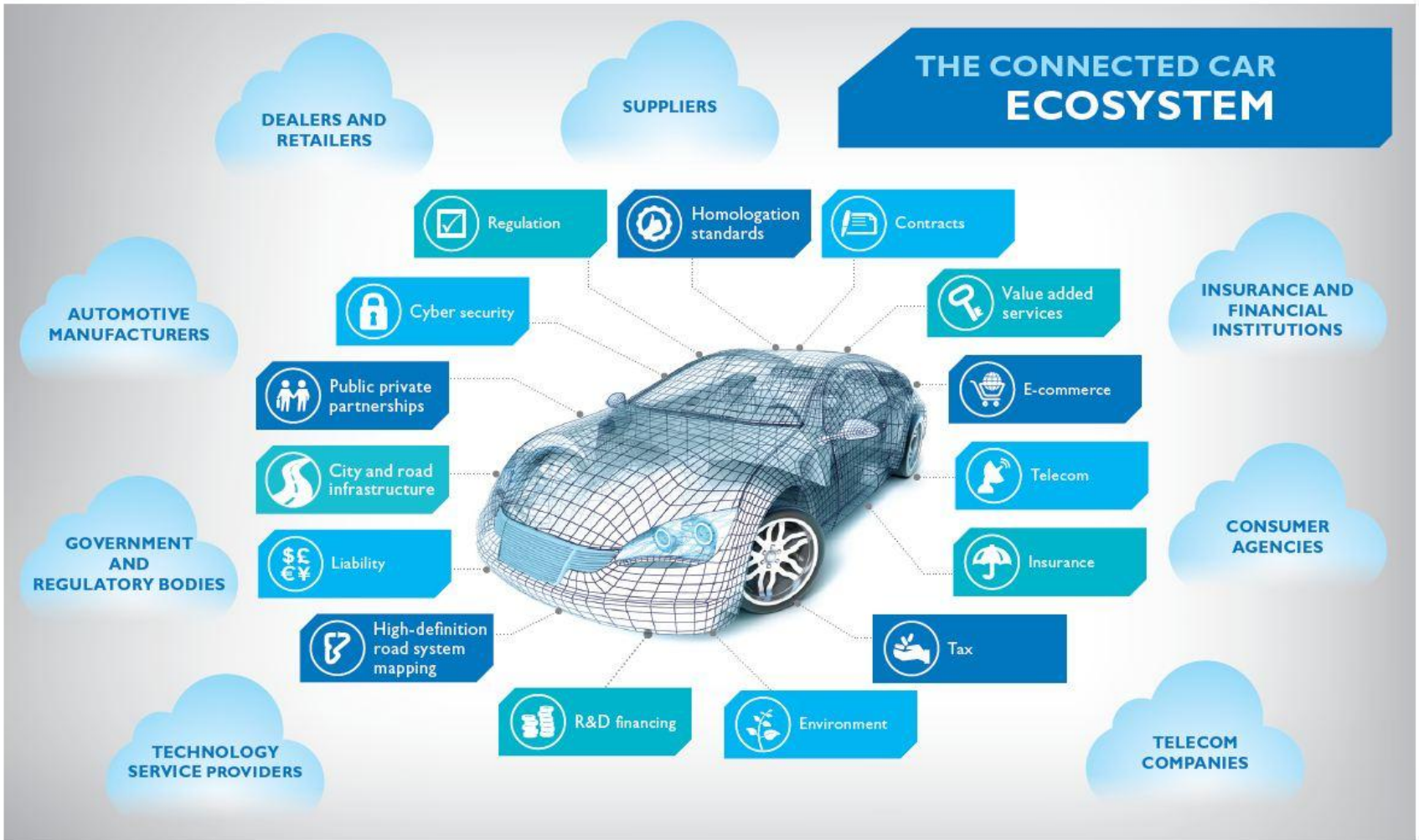
Source: CCS, 2013

M2M World of Connected Services The Internet of Things



THE CONNECTED CAR





- 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



- 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)



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



- 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*"



- 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?

