



Green Digital Charter

Digital Innovation, Inclusive
Sustainability and Smart Cities

Dave Carter, Head, Manchester Digital Development Agency (MDDA),
Manchester City Council, UK

www.manchesterdda.com

MDDA
Manchester Digital Development Agency



Policy drivers:

Smart City Agendas

- Smart, inclusive & sustainable growth
- Green & Digital
- Transformational services
- Open innovation, open data, open networks

European
Network of
Living Labs



Digital Agenda
1001100101011101110000100
for Europe
Going Local
Follow Online! #daelocal

EUROCITIES
GREEN DIGITAL CHARTER

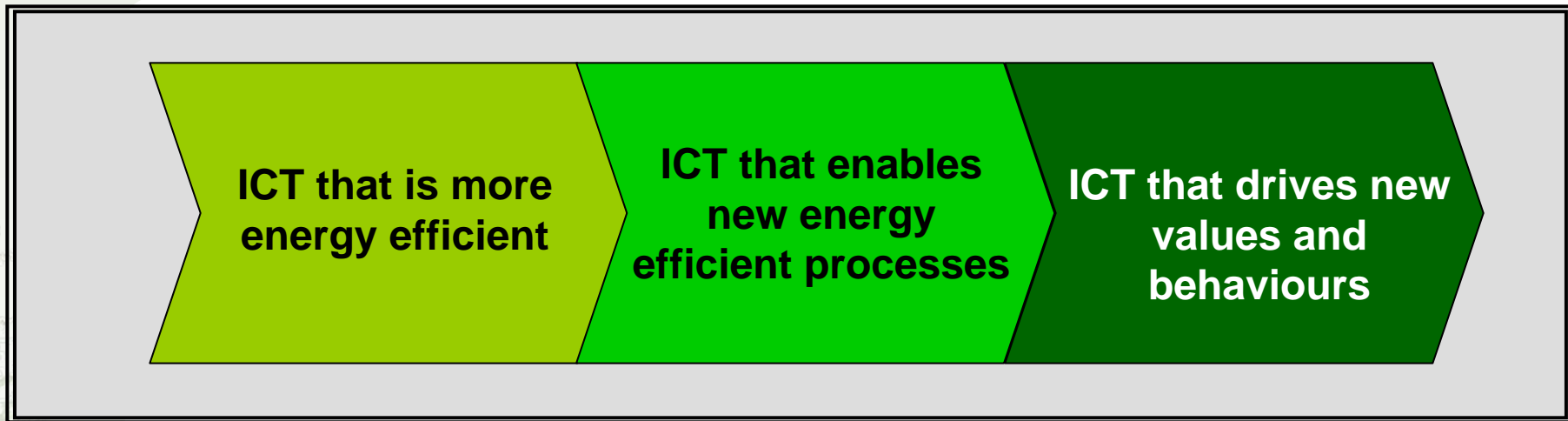
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Future Internet enabled services in Smart Cities

- Thinking Globally, Acting Locally
- Internet of Things + Cloud + Open Data + 3D printing + nano...
- Supporting organisations, networks and people locally
- Manchester 'Living Lab' supporting 'Go On Manchester'



Inclusive sustainability through Smart Cities



Ensuring more positive ICT impacts:

- sustainability in production, use & disposal of ICT
- more energy efficient neighbourhoods, public services and businesses
- creating sustainable energy communities:
- enabling behaviour change: individuals, communities and organisations

Future Vision:



- **Cities as catalysts for reducing emissions:**
- **Role of Green Digital Charter:**
 - Cities committed to working together to deliver on EU climate objectives, using digital technologies to increase energy efficiency, facilitate emissions reductions and help in adapting to climate change
 - Exploit ICTs as both a technical solution and enable of behavioural change to reduce emissions, including from ICTs themselves
 - Encourage leadership from cities in adopting innovative technical solutions and in building new partnerships to achieve this
 - Share public and private sector experience and expertise in deploying ICTs to address climate change, in cooperation with national, European and international initiatives

Priorities

» Green Digital Charter:

- Develop cities as platforms for innovation
- Demonstrate that cities can lead by practical example
- Create new partnerships for local action
- Promote integrated approaches and large-scale solutions
- Support open innovation
- Influencing EU policy development

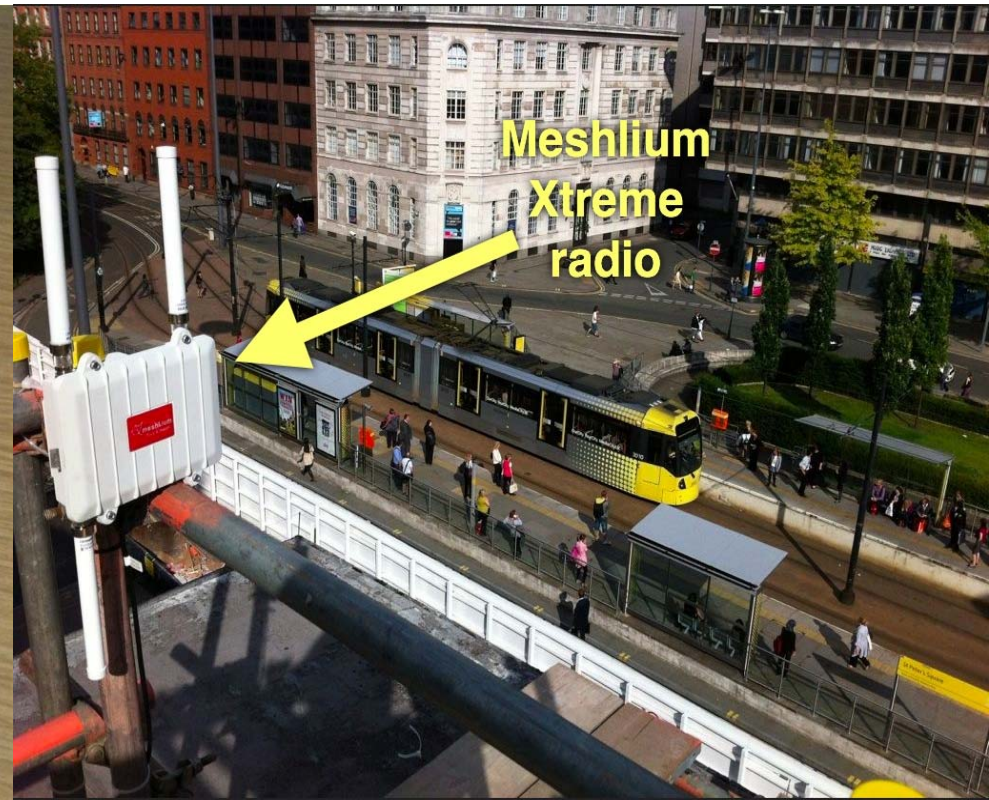
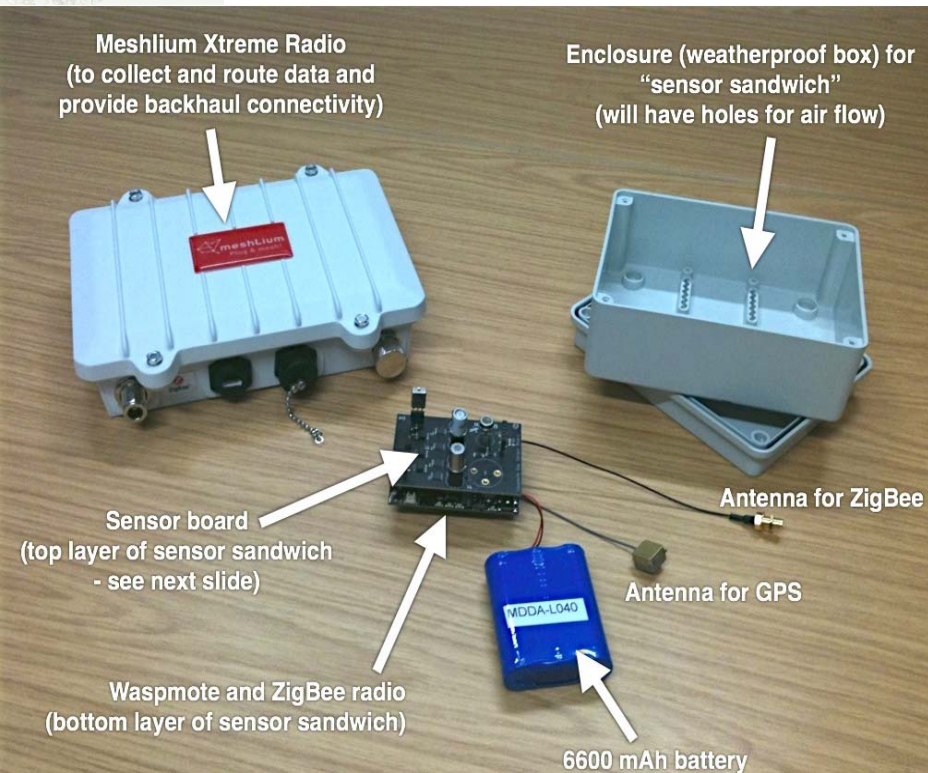
» Eurocities & Living Labs:

- European Network of Living Labs (ENoLL)
- Emerging “Smart Cities” agenda
- Links to ‘Future Internet’ policy initiatives
 - www.openlivinglabs.eu



Internet of Things and co-production: Manchester Living Lab & SMARTiP project:

- Test-bed smart environments network along Corridor
- Affordable and accessible sensors including DIY (Arduinos)
- Potential for wearables (clothes, bikes etc.) and micro-production
- Links to Corridor fibre and wireless networks



'Geek' Power! Entrepreneurs + Innovators

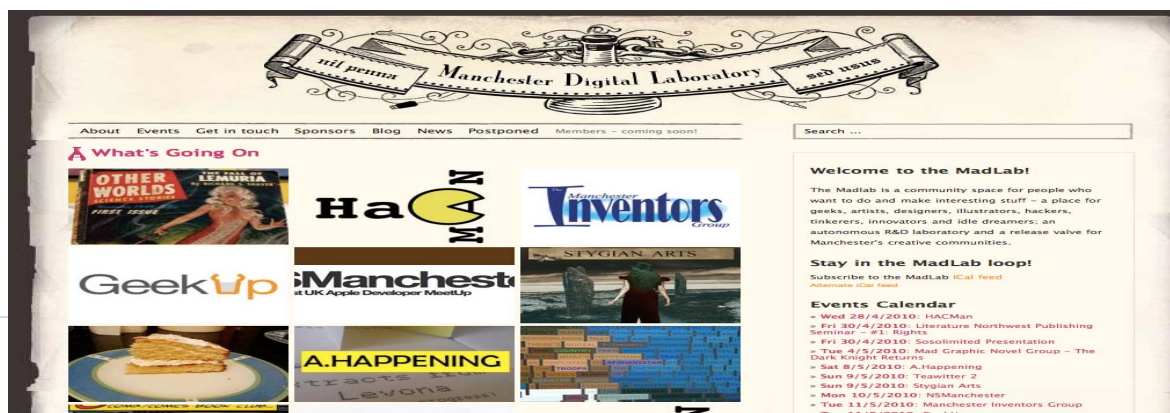
Manchester Digital Lab + Omniversity

MadLab

- » Creativity
- » Innovation
- » Diversity

Stimulating:

- » new ideas
- » new business
- » new skills
- » new jobs

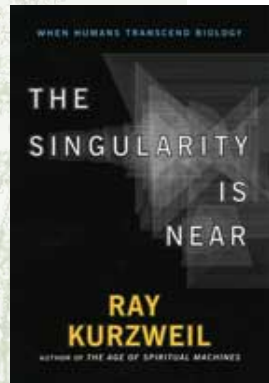


FUTURE FUTURES.....

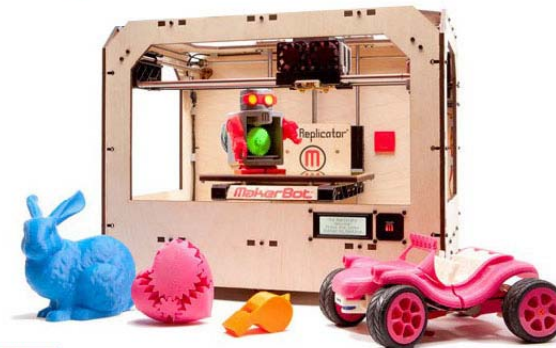
Even for those archetypal, **DIY garage inventors**, they can now **download free design tools** like **Blender** or **Google's SketchUp** to **create 3D renderings of their product**, then **purchase online the manufacturing equipment** (which have fallen in price from the hundred thousands to a few thousand, **e.g. MakerBot**) they would need to **build their products at home or in their rented space**.



www.singularityu.org



 **The Replicator™**



LEARN MORE

www.makerbot.com



Customised 3D-printed appendages let Emma Lavelle play alongside her friends with new freedom

<http://cnet.co/OJAPtU>



Thank You!

d.carter@manchesterdda.com

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