SCRAN:
Smart Cities Regional Academic Network

Mark Deakin
Peter Cruickshank
Sam Allwinkle
Introduction

• This talk focuses on SCRAN’s three-way partnership
• It draws attention to the methodology, models and technical needs of the organisation
• Those required for cities to become smart in using knowledge as the basis to learn about the intellectual capital and wealth creation opportunities of eGov service development programmes.
Overview

• The project partnership:
  – Academic organisation of the SmartCities partners
  – SCRAN’s methodology
  – The SmartCities triple-helix model
  – Conclusions
The map identifies each academic institution, their local SmartCity partners and the specific role they take on within SCRAN.

Each academic organisation and local SmartCity partner contributes to the knowledge base needed for them to learn about eGov service developments and support their customisation, multi-channelling and user-profiling.

It is the three-way partnership between the University, Industry and Government that captures the science and technology around which the ‘triple-helix’ of the SmartCities regional innovation system circulates.
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The Academic organisation of SmartCities partners

**SCoAN**

**User Profiling**
WP5

**Multi-channelling**
WP4

**Customisation**
WP3

**Methodology**
WP2

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**Academic organisation and local SmartCities partner**

- **User Profiling**
  - Porism/ESD
  - Norfolk Council

- **Multi-channel access**
  - Groningen University
  - Gemeente Groningen
  - Bremerhaven
  - Osterholz-Scharmbeck

- **Customisation**
  - Mechelin/MEMORI
  - Kortrijk
  - Agder University
  - Kristiansand-Lillesand

- **Methodology**
  - Napier University
  - Edinburgh City Council
SCRAN’s methodology is unique because:

- it is led by an academic community, networked and organised in a way that is creative in generating the intellectual capital needed for cities to be smart
- this places particular importance on the learning communities (university, industry and government) of this organisation and knowledge which they require for wealth creation to support the development of Smart Cities (as platforms of eGov services)
- all of these eGov service development programmes are in turn seen to form part of a regional innovation system.
SmartCities triple-helix

• The three-way partnership of University, Industry and Government, captures SmartCities’ triple-helix.

• As a ‘triple-helix’ model of University, Industry and Government, this triple-helix works on the premise that society’s knowledge-base is intensely scientific and technical, supported by the capacity for:
  – Universities to generate intellectual capital;
  – Industry to create wealth
  – Government to regulate the intellectual capital of wealth creation
  – Cities to become smart in generating wealth creation opportunities from the eGov services underlying their development and as part of a regional innovation system.
SCRAN as three-way partnership
Triple-helix model for SmartCities

- University
- Industry
- Government

- Intellectual Capital
- Wealth Creation
- Regulatory standards
- Knowledge Arch
- Learning Curve

- Social
- Communal
- Environmental
- Customisation
- Multi-channelling
- User-profiling

- networks
- regions
- cities
Triple-helix model for SmartCities

- Intellectual Capital
- Wealth Creation
- Regulative Standards
- University
- Industry
- Government
- User-profiling
- Multi-channelling
- Customisation
- Capacity building
- Co-design
- Monitoring & evaluation
- Underpinned by
- Built on
- Edinburgh Conference: towards Smarter Cities
- March 2009
- Enterprise architecture
  - Business modelling
  - Customisation
  - Multi-channelling
  - User-profiling
  - Capacity building
  - Co-design
  - Monitoring and evaluation

Triple-helix of knowledge-based learning and generation of intellectual capital.
Conclusions

In methodological terms:

The challenge this poses in turn means the academic network has to organise:

• the production for knowledge internally (i.e. as the SmartCities venture);

• externally as part of a regional innovation system and

• represent SCRAN as a way of systematically ‘turning innovation inside out’ by representing the:
  – triple-helix of the SmartCities venture
  – the organisation of this venture into knowledge production as the social capital of a learning community
  – the collaboration needed for universities and industry to be smart in constructing the advantage this offers cities to meet their eGov. service development commitments
  – the consensus-building needed to support the development of ‘trans-national’ standards for the development of eGov. service provision
  – the practical application of such standards in building the capacity required for and co-designing the development of eGov. services capable of being mainstreamed across the North Sea’s regional innovation system