Knowledge On-demand Environments

16:00 to 17:30 - Tuesday 20th November
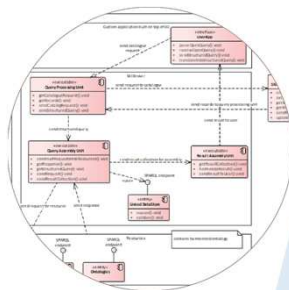
Andrew Coote
Session Moderator
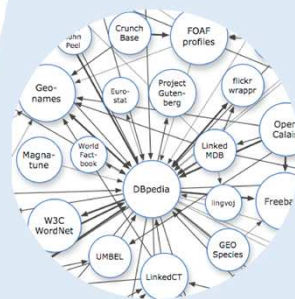

Knowledge On-demand Environments

Lesley Arnold
The Query Process –
Concepts, Challenges
and Opportunities

Ivana Ivanova
Technical Architecture
for Spatial Knowledge
Infrastructure

Lorraine McNerney
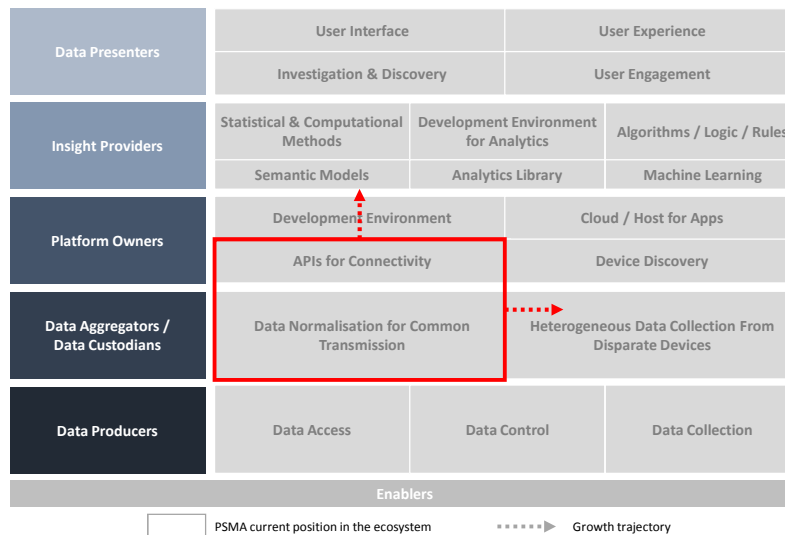Creating and Publishing
Linked Data

Nathan Eaton
Machine-learning –
Example Applications

Panel Session: Joined by **Denise McKenzie** – OGC Semantic Web Standards

Key Messages

- Modern societies have an expectation of instant access to information through Mobile Apps and natural language recognition

- Current SDIs focus on data access and not delivering such knowledge

- New technology environments and ways of thinking are required to enable Knowledge On-demand

- Knowledge On-demand is being facilitated by AI-type techniques

- Government mapping organisations can enable Knowledge On-demand applications by publishing linked data.

- Many emerging AI techniques - machine-learning and predictive analysis are promising innovations for Knowledge On-demand

Data Economy Framework

Data Presenters	User Interface		User Experience
	Investigation & Discovery		User Engagement
Insight Providers	Statistical & Computational Methods	Development Environment for Analytics	Algorithms / Logic / Rules
	Semantic Models	Analytics Library	Machine Learning
Platform Owners	Development Environment		Cloud / Host for Apps
	APIs for Connectivity		Device Discovery
Data Aggregators / Data Custodians	Data Normalisation for Common Transmission		Heterogeneous Data Collection From Disparate Devices
Data Producers	Data Access	Data Control	Data Collection
Enablers			

☐ PSMA current position in the ecosystem   ┈┈▶ Growth trajectory

Source: IBM 2016 The Rise of the Data Economy: Driving Value through Internet of Things Data Monetization