2011 Future Lab Trend Watch

Howard Ratner,

CTO NPG

and Chair of STM's Future Lab Committee
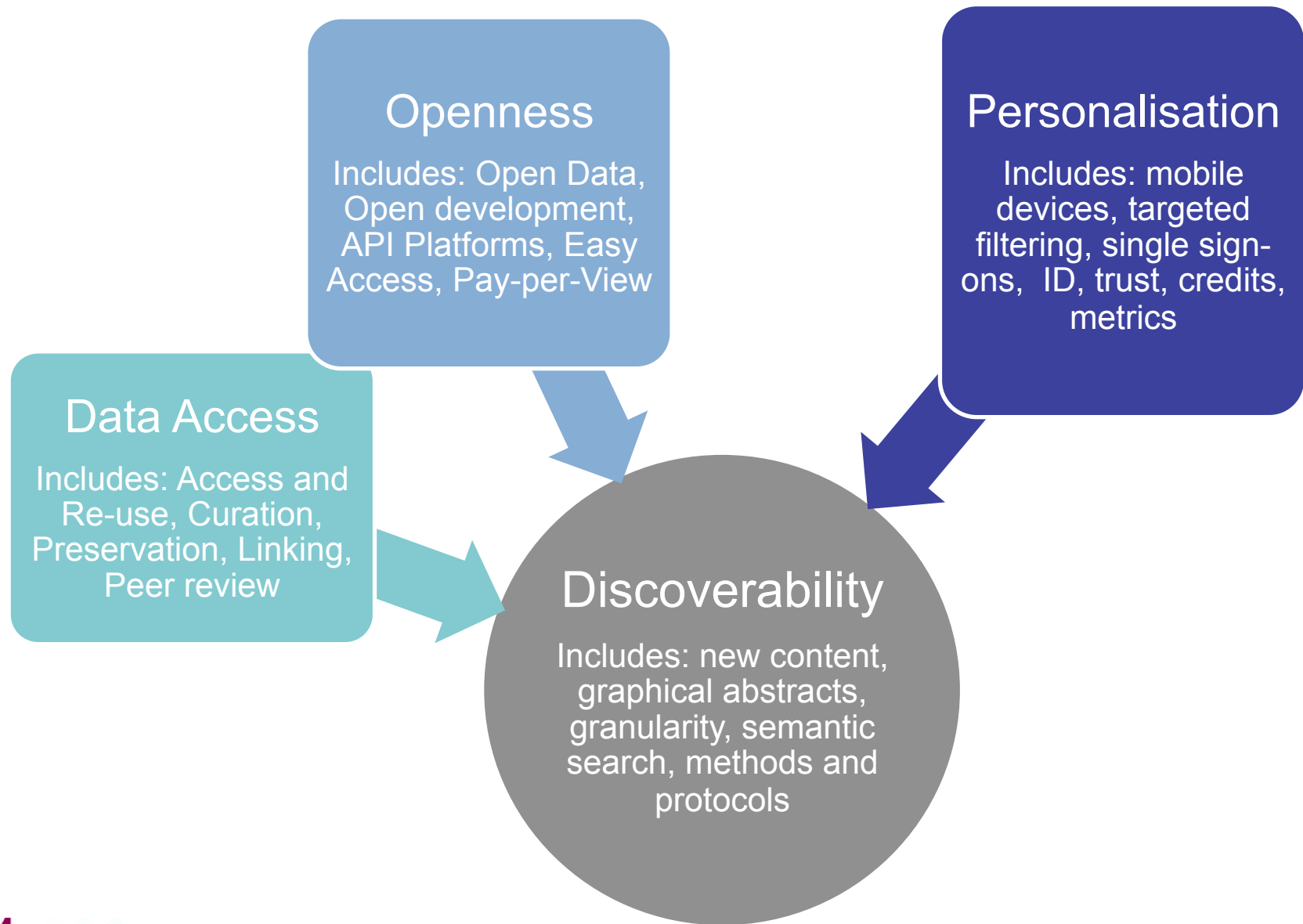
In collaboration with Eefke Smit

STM Director, Standards and Technology

STM Board Meeting, 1 Feb 2011, Washington DC

Who are the STM Future Lab ?

- **Howard Ratner - NPG: CHAIR**
- IJsbrand Jan Aalbersberg - Elsevier
- Kent Anderson – Journal of Bone and Joint Surgery
- Geoffrey Bilder - Crossref
- Daniel Schiff - Thieme
- Gerry Grenier- IEEE
- Gillian Howcroft - Taylor and Francis
- Terry Hulbert - AIP
- Richard Kidd – RSC
- David Kochalko – Thomson Reuters

- David Martinsen – ACS
- Thomas Mager - Springer
- Timothy Murray – Cambridge University Press
- John Sack - Highwire Press
- Philippa Scoones – Wiley Blackwell
- John Shaw - Sage
- Eefke Smit - STM
- David Smith - CABI
- Pam Sutherland – Oxford University Press
- James Walker – IoPP

STM Future Lab Technology Trend Watch 2011 and beyond

Openness

Includes: Open Data, Open development, API Platforms, Easy Access, Pay-per-View

Personalisation

Includes: mobile devices, targeted filtering, single sign-ons, ID, trust, credits, metrics

Data Access

Includes: Access and Re-use, Curation, Preservation, Linking, Peer review

Discoverability

Includes: new content, graphical abstracts, granularity, semantic search, methods and protocols

stm

Openness, think of:

Open Innovation   *Crowd sourcing*

Platforms and APIs

Open Development

New Peer Review Models

Collaborations

Open Data   **Trust Issues**

New Access Methods;
Mendeley, DeepDyve

stm

Data Access, think of:

Data as a publication

Supplemental "stuff" to journals

Publishers role

Validation and Peer review

Citability

Community Curation

Linking with publications

BIG Data

Datacenter Initiatives

Certification of DataCenters

Semantic Pharma Data

Government Data

stm

Personalisation, think of:

Targeting and Filtering

Mobile Devices

Semantic targeting

Single Sign-on

Multi Device Environments

Is the browser the future

Facebook and Twitter

Magazines on Tablets

Trust and Provenance

ORCID and other IDs

Author Credits and Metrics

Further integration, mash-up services

stm

Discoverability, the overarching aim:

Granularity

New Content Types

Semantic tagging

Data and Multimedia

Methods, protocols

Multi Device Environments

New search

Linking to data elsewhere

Article of the Future

Trust and Provenance

ORCID and other IDs

Anonymous users

Real-time everything

stm

Summary: Four Main Trends

Openness	Data Access	Personalisation	Discoverability
Open Data	Access and re-use	Mobile devices	New content
Open Development	Curation	Targeted filtering	Granularity
API platforms	Preservation	Single sign-on	Methods
Access entitlements	Linking to articles	IDs, trust, provenance	Graphical abstracts
Easy access, pay-per-view	Quality, peer review	Metrics and credits	Semantic search

stm