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DAFNI Infrastructure Research Ontology Project

DAFNI Championship

www.cranfield.ac.uk

Task	June	July	Aug	Sept	Oct	Nov	Description
WP2: Datasets (Lead Cranfield)							
Data inventory and type/thematic classification	X	X					Inventory of the types & thematic natire of the Dafni data holdings
IRO identification and application		X	X				Investigate applicability of IRO approaches to describe data
Data access and web services review			X	X			Review and recommend data access mechanisms / web services
Metadata and discovery review			X	X			Review Metadata and discovery services
Gap analysis and recommendations				X	X		Identify potential gaps in data propvision to service IRO approach
Reporting					X	X	Prepare summary report of findings and recommendations

Key challenges:

Vast bodies of data being included within DAFNI

Data held in many formats (not just CSV!) – eg JSON, GIS files etc

Users will need help in searching out, discovering, selecting and organising the data

Linkages between data-sets would be helpful to guide modelling approaches

Users may seek to link to web services inbound and outbound for data requirements

Schema exist for many thematic applications (CityGML / INSPIRE etc)

Activity themes:

Help develop a hierarchical thematic classification to the ancillary datasets being added

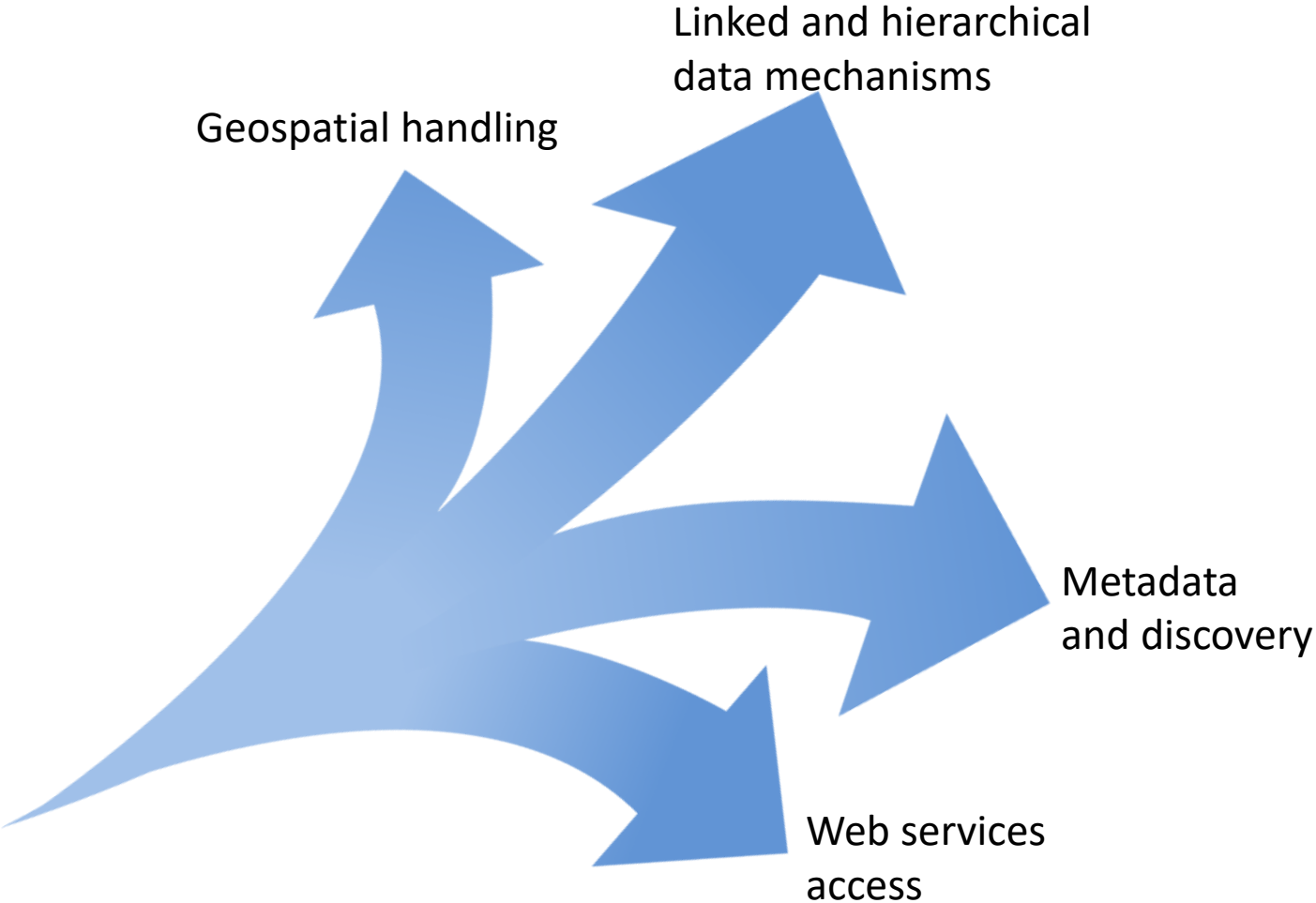Help with development of metadata schema (DCAT-2) and mappings to other schema

Help with management of other data formats (eg Shapefiles, Geopackages etc)

Seek to explore opportunities for REST data services, (e.g. OGC WMS/WFS)

Seek to establish ontological links between existing schema and the data resources

DAFNI Infrastructure Research Ontology Championship contribution summary

Linked and hierarchical data mechanisms

Geospatial handling

Metadata and discovery

Web services access

DAFNI Advocacy

Environmental data