



Geospatial Rights Management

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orchestra

Presentation Overview

- What is Geospatial Rights Management?
- Overview of the GeoDRM Reference Model Standard
- How we added Geospatial Rights Management to an ORCHESTRA Pilot
- Developing harmonised licensing terms based on Creative Commons
- What are the implications for data sharing in a distributed environment?





What is Geospatial Rights Management?

No
Technical
Protection
Measures

Strong
Technical
Protection
Measures



public domain

copyright statement

click-through licence

managed access

watermarking

encryption

Geospatial Rights Management enables the **electronic licensing** of geospatial resources to manage and protect IPR



OGC GeoDRM Reference Model

Geospatial Digital Rights Reference Model (GeoDRM RM) | OGC® - Microsoft Internet Explorer provided by Ordnance Survey

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**Geospatial Digital Rights Management Reference Model
(GeoDRM RM)**

**Modèle de la référence pour la gestion des droits pour l'usage
dans l'information géographique**

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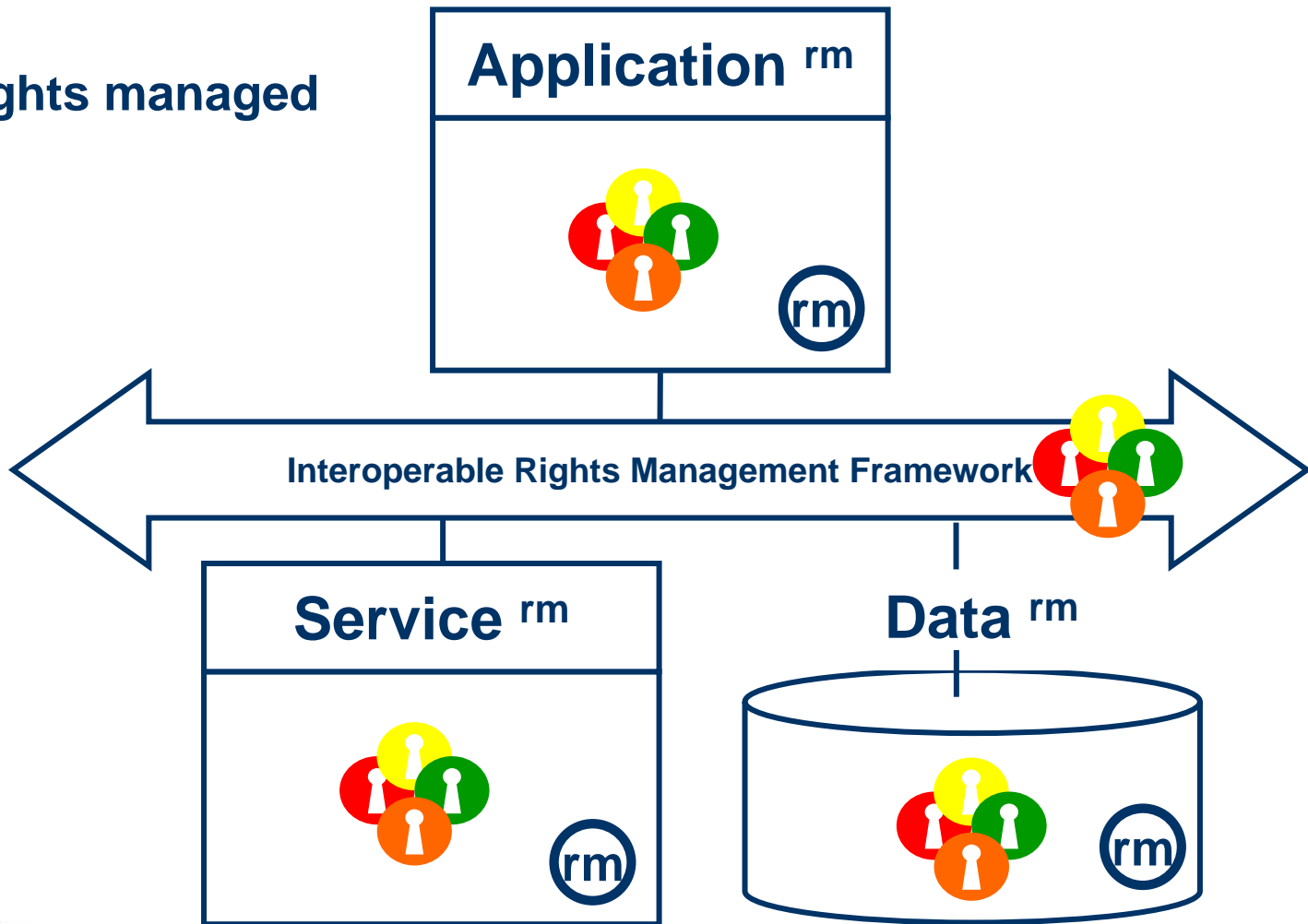
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Geospatial Digital Rights Management Reference Model (GeoDRM RM) (06-004r3)

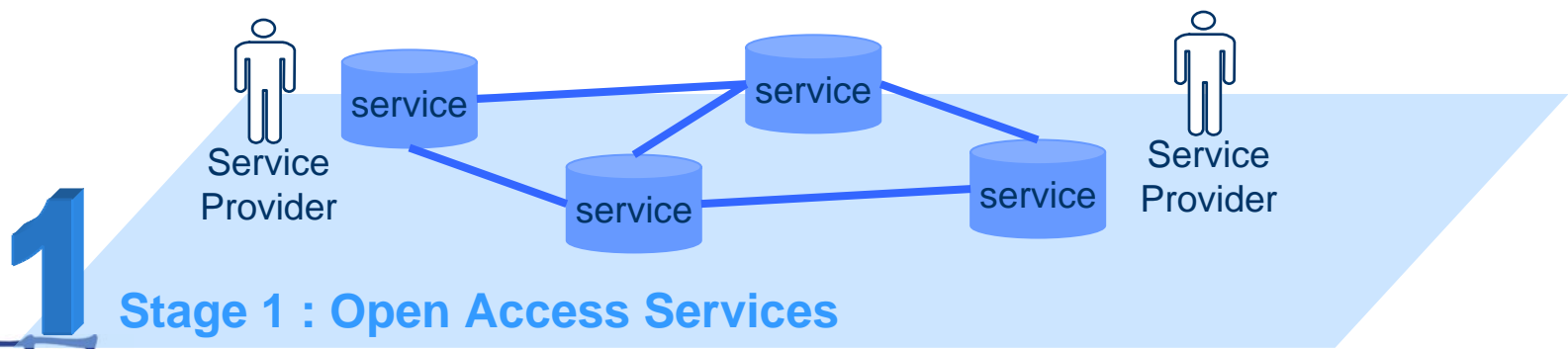
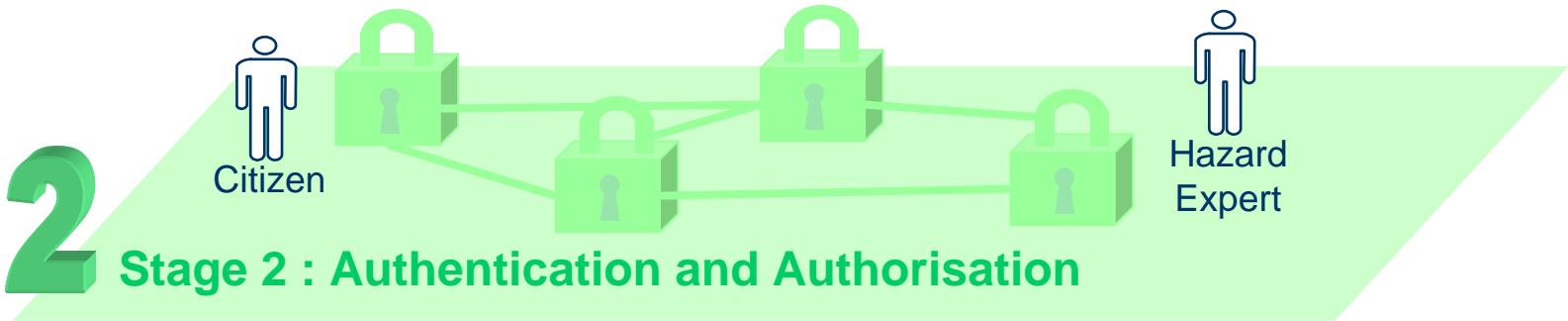
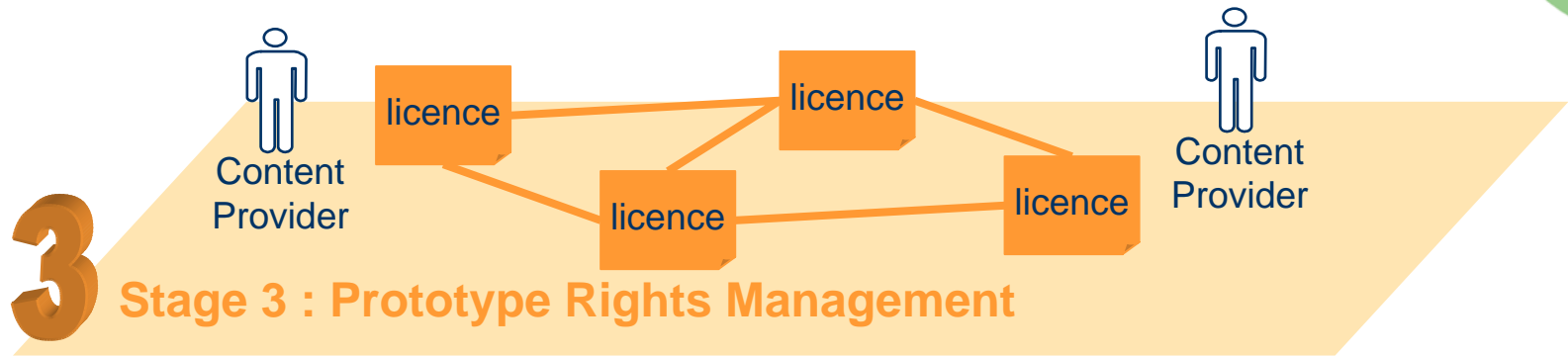
<http://www.opengeospatial.org/standards/as/geodrmrm>

GeoRM Architecture – Automated Rights Management

 = rights managed



How we added Geospatial Rights Management to an ORCHESTRA Pilot



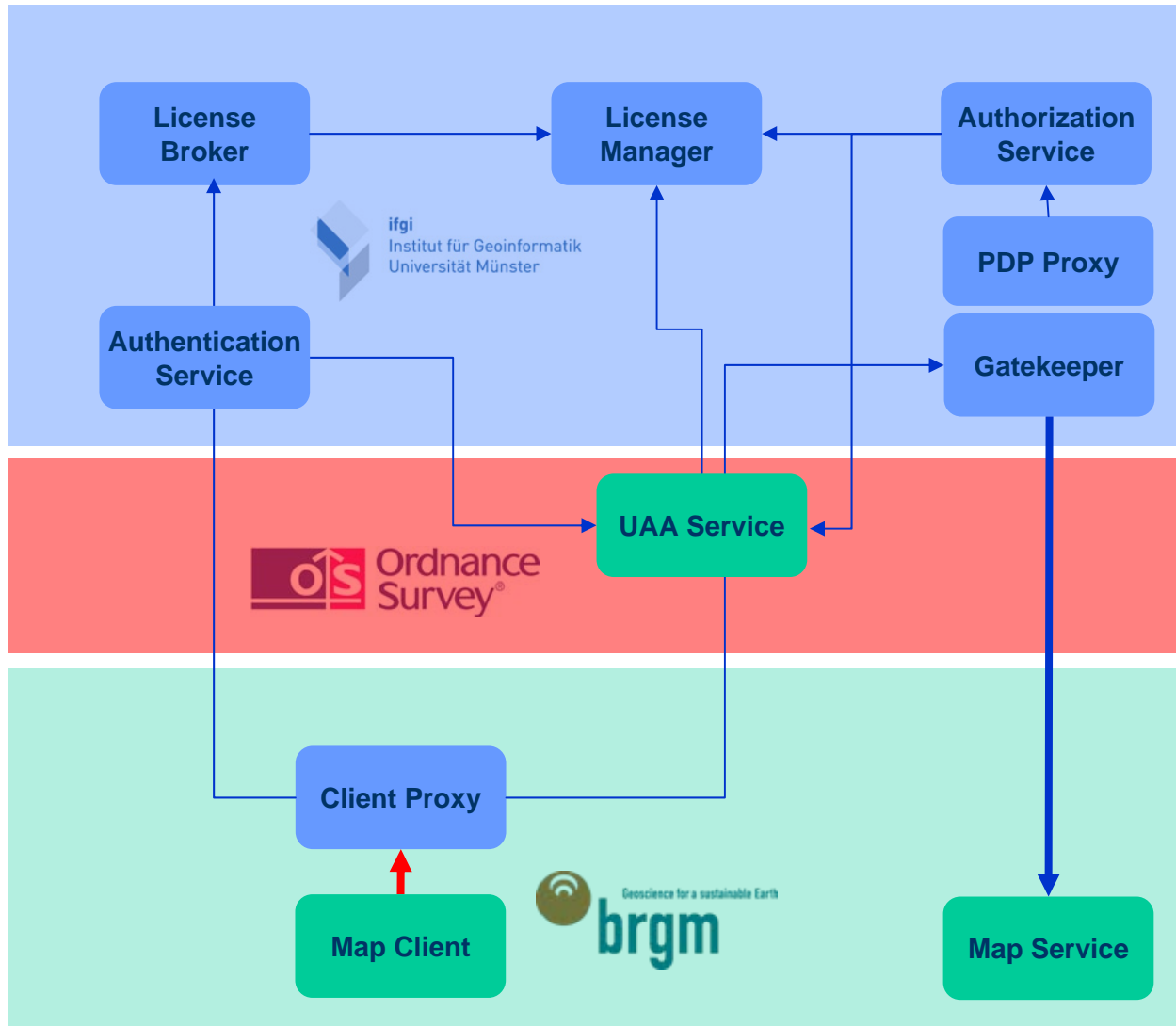
Pilot Deployment Architecture



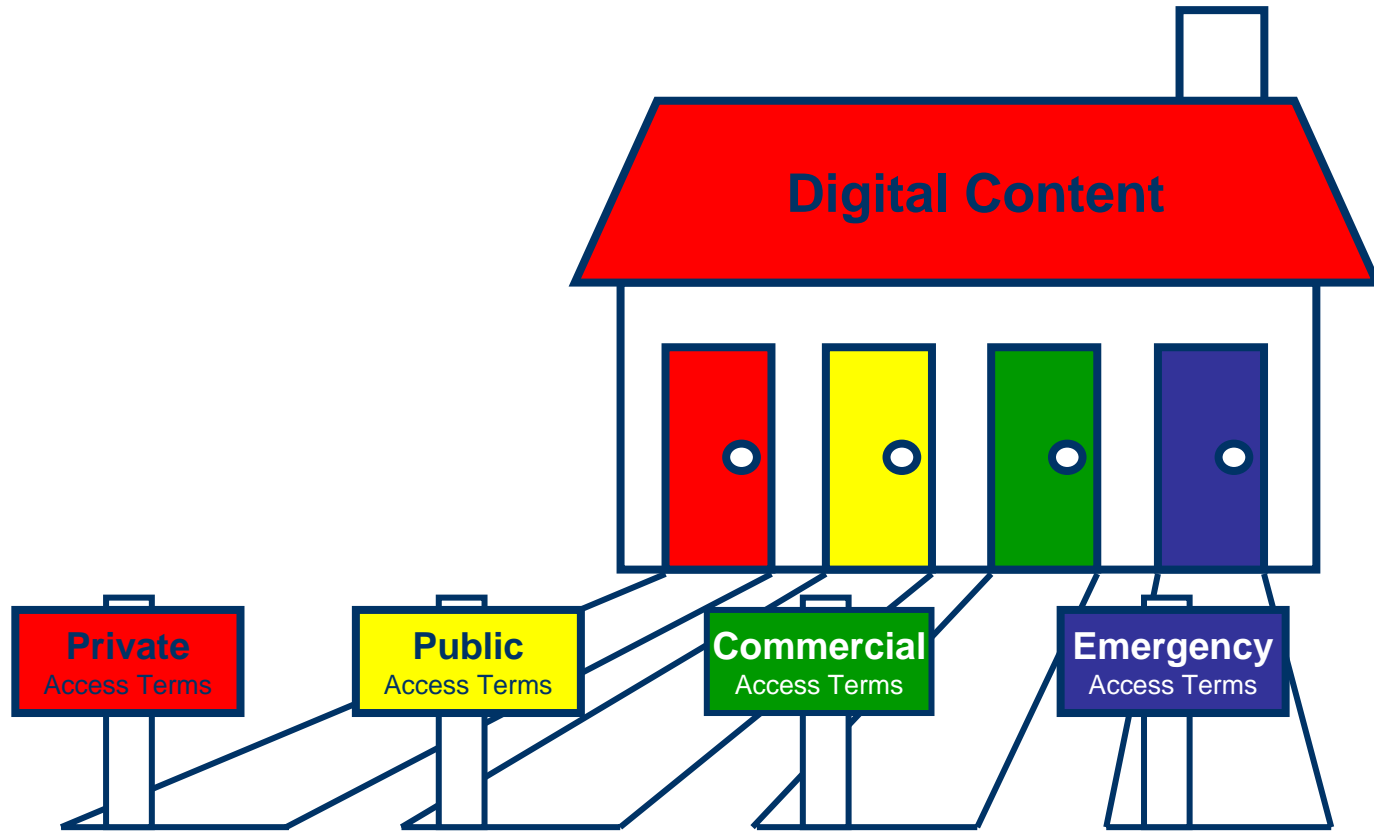
Key

ORCHESTRA Component

GeoRM Component



Developing harmonised licensing terms



Private Resource

- privacy
- sensitive data
- secret data

Public Resource

- open access data
- public domain
- freedom of information

Commercial Resource

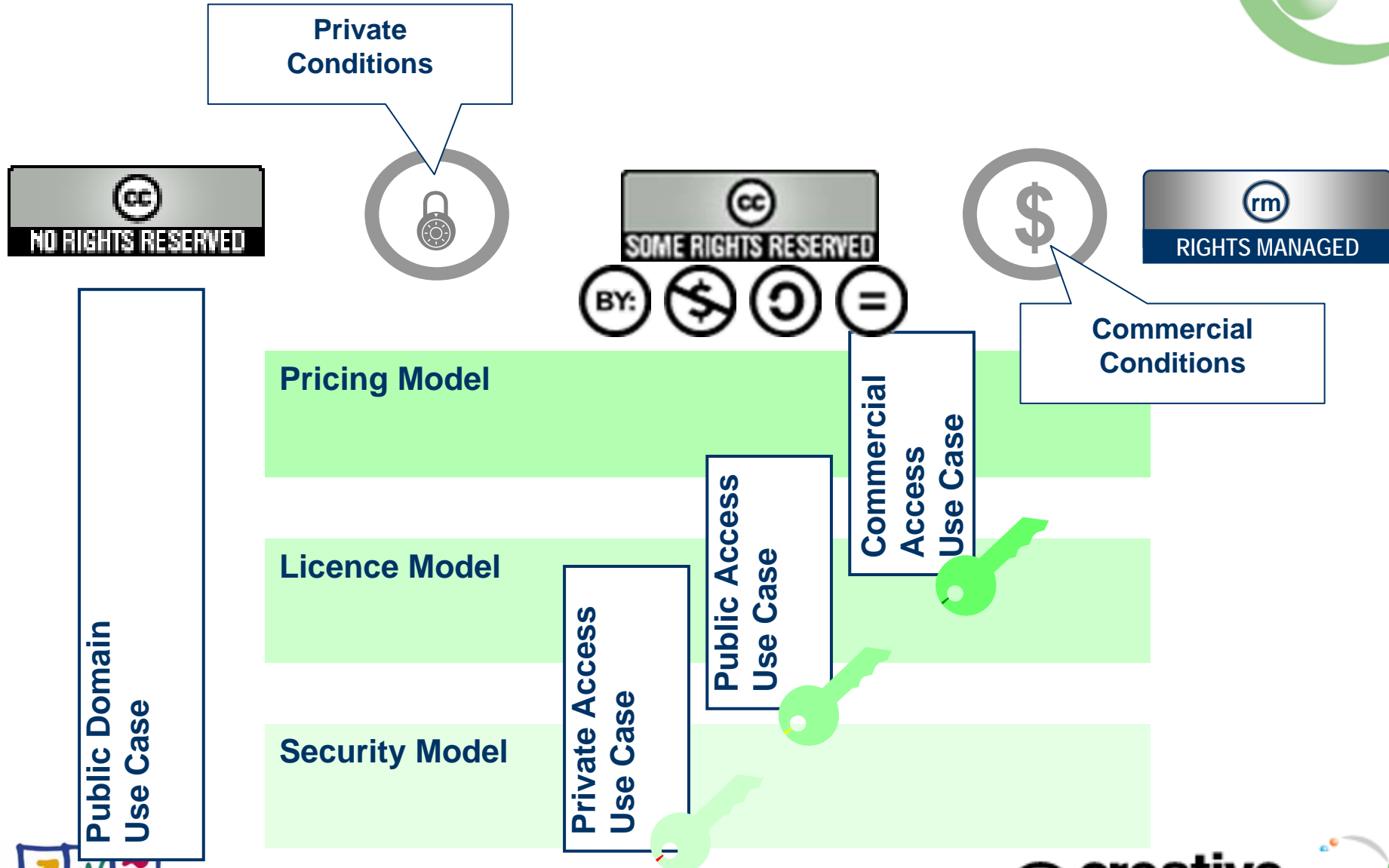
- subscription
- pay as you go

Emergency Resource

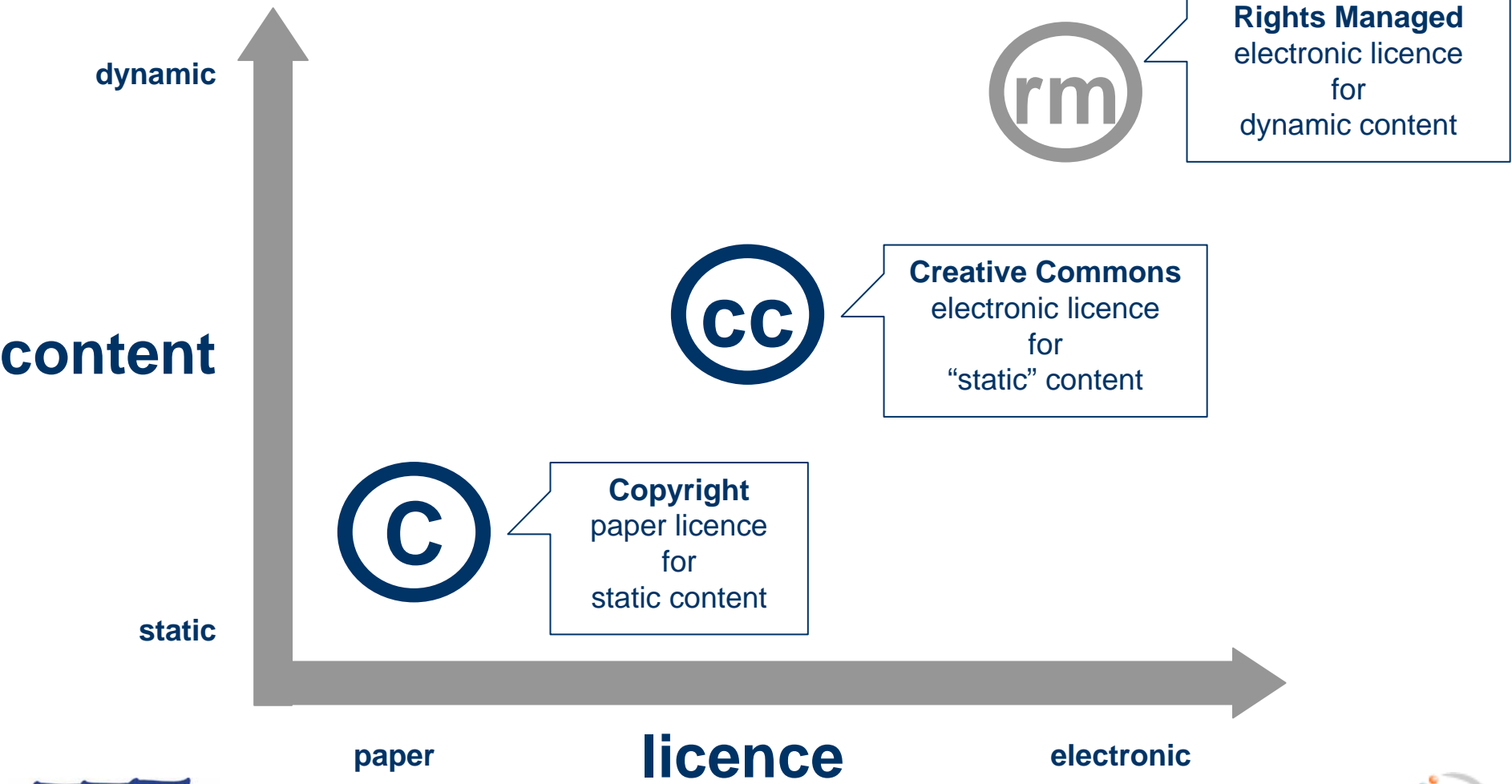
- risk management
- crisis management
- disaster management



Extending Creative Commons



Frontiers of Right Management





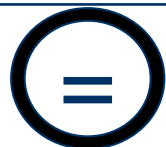
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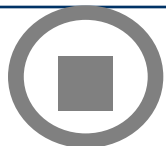
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	Protected	You let others use your copyrighted work subject to additional constraints – which may be enforced using a technical protection measure
	Identity	is established electronically
	Click-through	agree to terms and conditions
	Temporal	for a specified period of time
	Geographic	for a specified geographic area
	Trial access	access limited for trial purposes
	Encrypted	content is digitally encrypted

Conclusions



- ORCHESTRA has proven the **technical feasibility** of electronic licensing of geospatial resources
- We have developed an example **licensing model** building on the terms defined by **Creative Commons**
- Using this approach we can **simplify and reduce** the overheads licensing data in a manual way
- We need to **work together as a community** to develop **harmonised terms** for data sharing
- Geospaital Rights Management is a key enabler to building **sustainable networks of information.**



The background is a dark green gradient. A large, light green arc curves across the top right. In the top left corner, there are three small, semi-transparent spheres in orange, blue, and red. A larger, semi-transparent green sphere is positioned in the lower center. The word "orchestra" is faintly visible at the bottom in a light green font.

Thank you!

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