

# JEOBROWSER

Interoperability and value added to Earth Observation data



Jérôme GASPERI  
November 2011



Introduction

Interoperability - Why ?

Technical view

Economical view

Political view

Practical interoperability

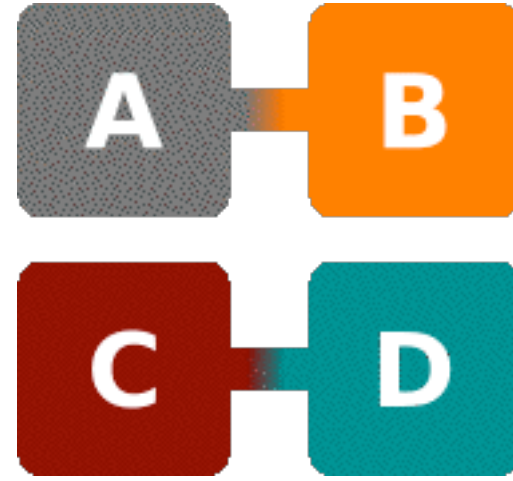
jeobrowser



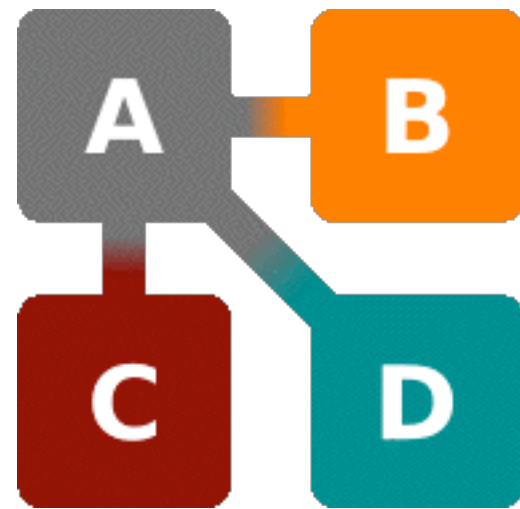


Interoperability

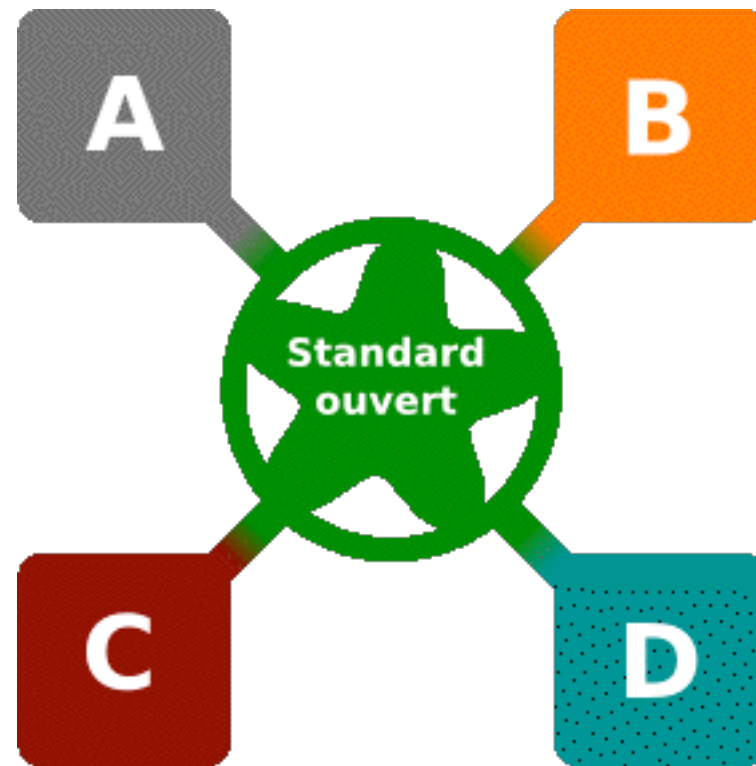
Ability of a system or a product to work with other systems or products without special effort on the part of the customer



Compatibility



*De facto* standard



Interoperability



Three essential point of views

# Technical view

To simplify data access



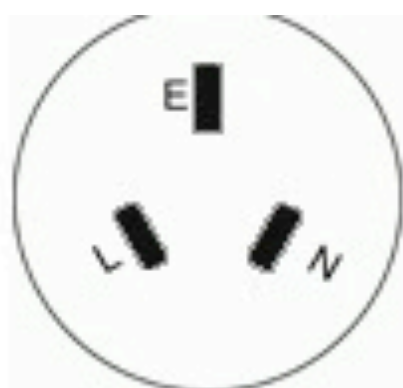
A (NEMA 1-15 USA 2 pin)



B (NEMA 5-15 USA 3 pin)



C (CEE 7/16)



D (BS546 5 A version of Type M)



E (French)



F (CEE 7/4 "Schuko")



G (BS1363 Fused 13 A,  
5 A and 3A also in common use)



H (SI 32 Israel)



I (AS-3112 Argentina /  
Australia / New Zealand)



J (SEV-1011 Switzerland)



K (SRAF 1962/DB Denmark)



L (CEI 23-16 Chile / Italy)



M (15 A version of Type D BS546)



N Italy



O Denmark



P Israel

# Economical view

To get in the Geographical Web



# Political view

To build an European Spatial Infrastructure



# INSPIRE

Infrastructure for Spatial Information  
in the European Community

Directive 2007/2/EC of the European Parliament and the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community



# GMES

## Global Monitoring for Environment and Security



Provide Europe with an autonomous and operational capacity for Earth Observation



Security  
(G-MOSAIC)



Atmosphere Monitoring  
(MACC)



Ocean Monitoring  
(My Ocean)



Emergency Response  
(SAFER)

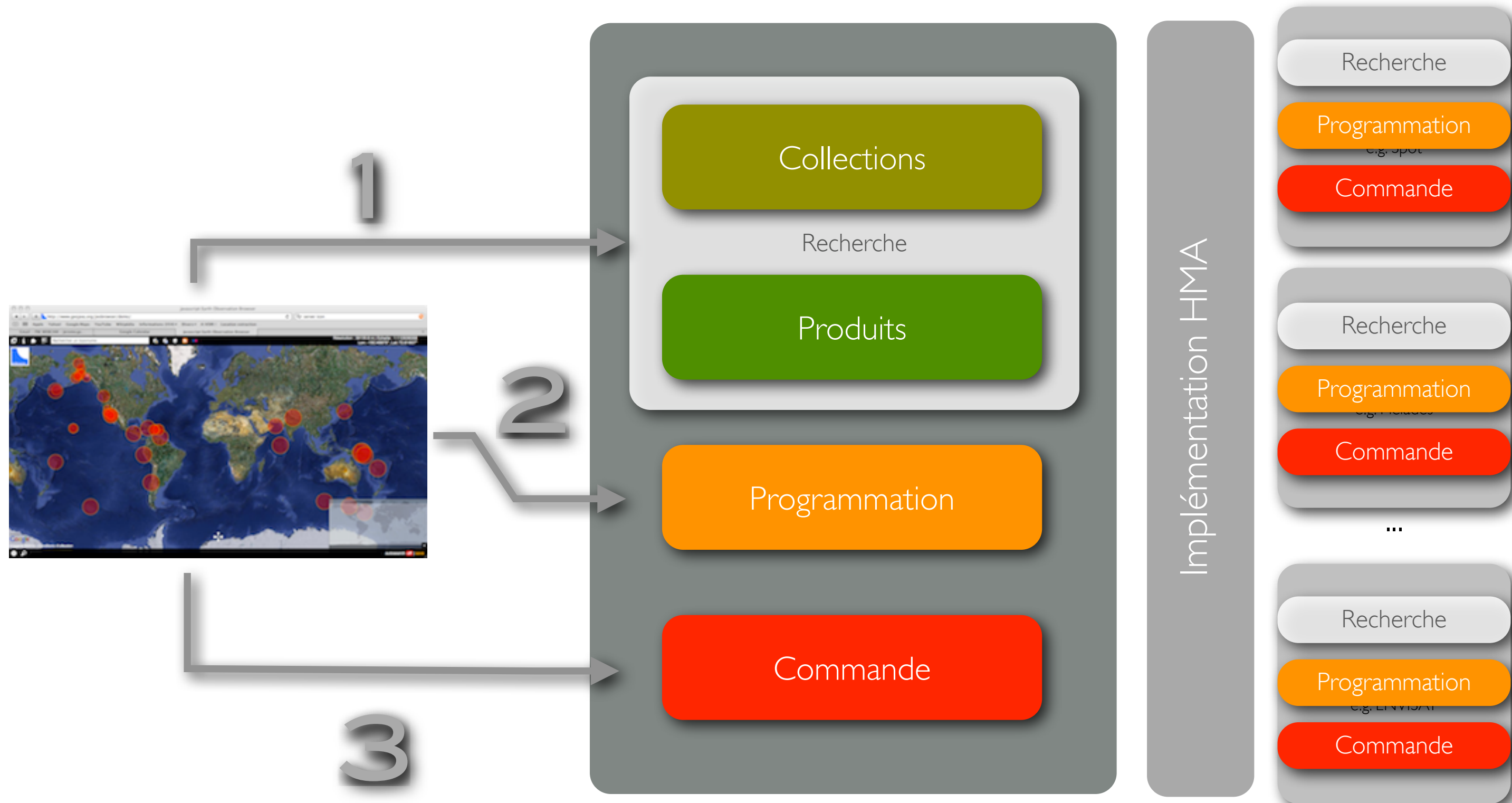


Land Monitoring  
(Geoland 2)



```
hma:status>ACQUIRED</hma:status>  
<hma:acquisitionStation  
codeSpace="urn:HMA:PHR  
<hma:archivedIn>  
  <hma:ArchivingInfofor  
    <hma:archivir  
codeSpace="urn:HMA:PHR  
  <hma:archivir  
  </hma:ArchivingInfofor  
</hma:archivedIn>  
<hma:startDate>2001-08-  
<hma:completionDate>200  
<gml:extentOf>  
  <gml:Polygon srsNam  
    <gml:exterior  
      <gml:  
2.65 42.862778 1.896944 4  
    </gml:  
  </gml:exterior  
</gml:Polygon>  
</gml:extentOf>
```

# Heterogeneous Mission Accessibility



Client Web

Portail ESA  
DAIL

Missions

# Practical interoperability

javascript Earth Observation Browser



Accelerated access to data and services





+







+



URN:OGC:DEF:EOP:SPOT:ALL:55G2T1001201...

Product Type	SPOTSCENE_1A
Start of acquisition	2010-01-20T15:19:53+01:00
End of acquisition	2010-01-20T15:19:57+01:00
Location	Haiti
Disaster Date	2010-01-13T12:00:00+01:00
Disaster Type	EARTHQUAKE 2010-01-13

Ajouter l'image à la carte

http://engine.jeobrowser.com

HAITI EARTHQUAKE : 30 RÉSULTATS - AJOUTER À LA CARTE



...Thanks Merci شكرا Grazie Danke Gracias

tak Спасибо תודה ačiū eskerrik asko धन्यव

obrigado 谢谢 Thanks Merci شكرا Grazie

Danke Gracias tak Спасибо תודה ačiū

eskerrik asko धन्यवाद obrigado 谢谢 Thanks

Merci شكرا Grazie Danke Gracias tak

Спасибо תודה ačiū eskerrik asko धन्यवाद

