

## Legal issues of distributed Research infrastructures



# What is a distributed research infrastructure?

#### **ESFRI**

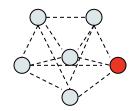
- •When a research infrastructure is structured with *more than one site* it can be defined as a distributed infrastructure.
- •A European distributed infrastructure is a *singular* research infrastructure, having a *unique name and legal status*, etc.

#### **ERIC Council regulation**

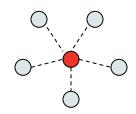
Art 2 (definitions): ... Such infrastructures may be 'single-sited' or 'distributed' (an organised network of resources)



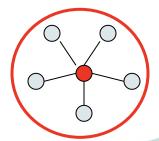
### Models of distributed research infrastructures



Loose interconnected network nodes. One (or a few) nodes support the coordination of common operations.



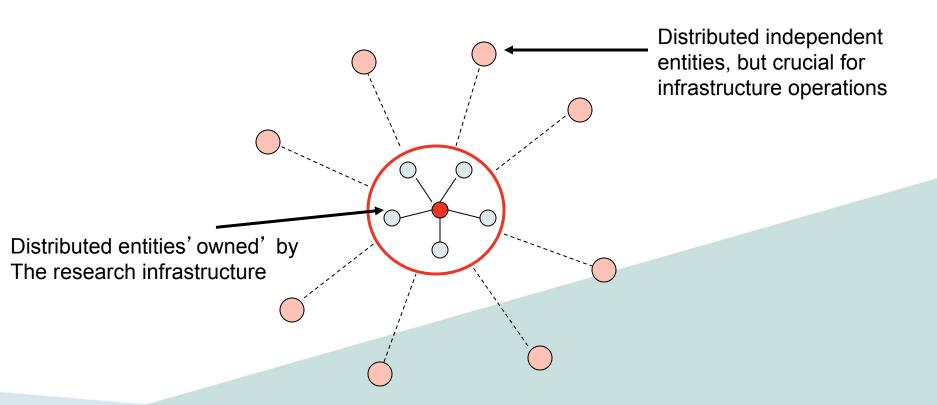
Hub and spokes with dependent operational relations. But spokes are not necessarily "owned" by the hub. Often e-Infrastructures.



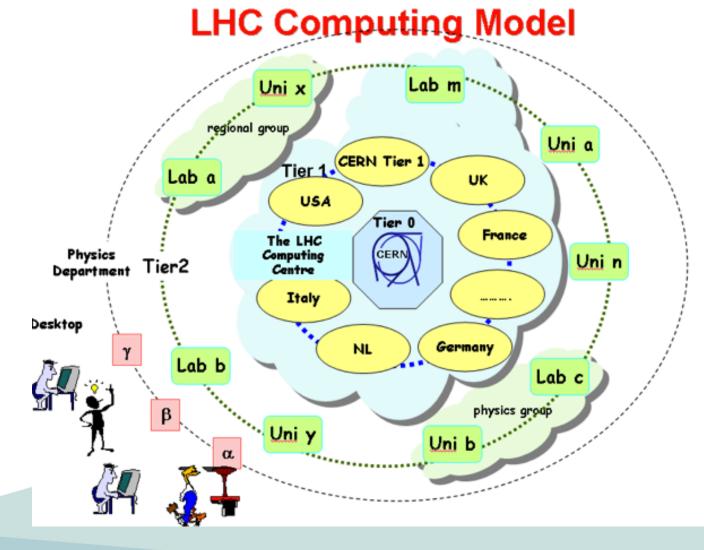
Multiple sites infrastructure, with different places of operation and a coordinating mechanism.



### Mixed model

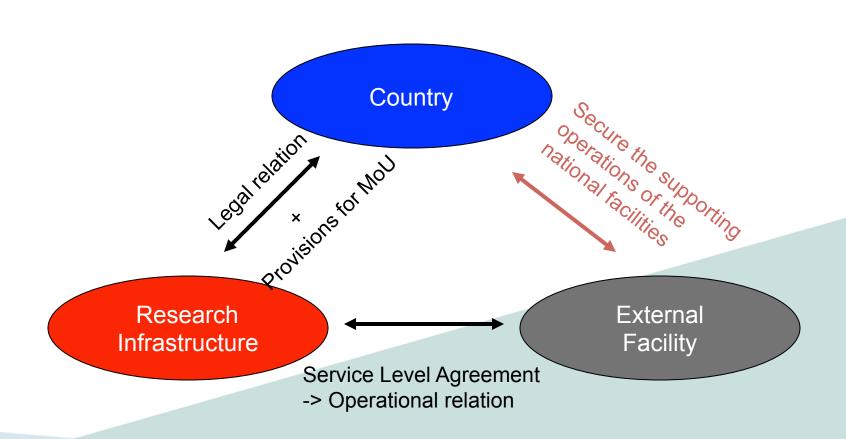


e-infrastructures especially often depend on the operations of other facilities, not necessarily part of the infrastructure's legal entity.

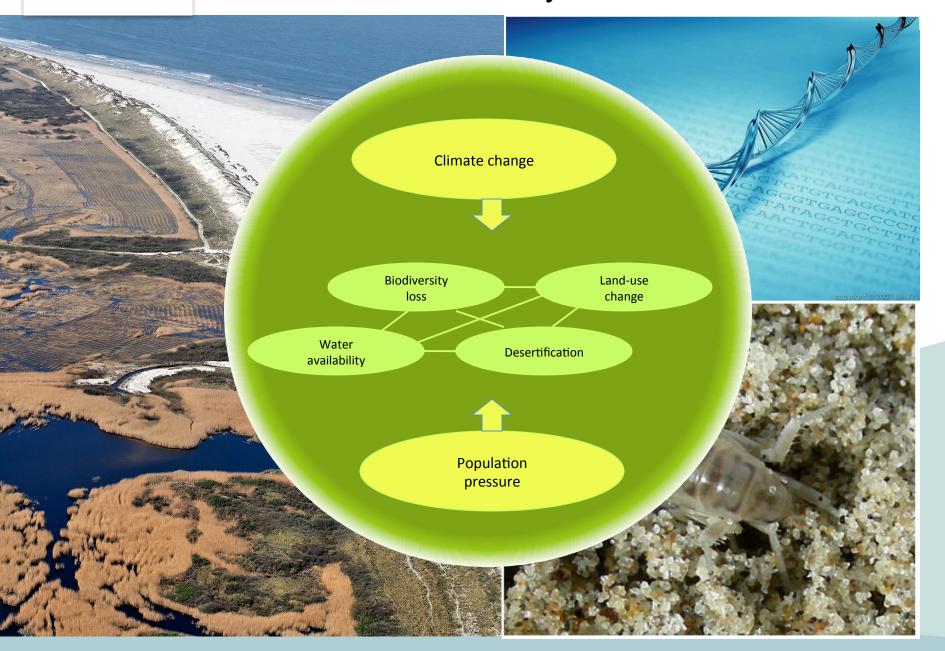




## How to regulate crucial relations with 'not owned' facilities?



#### The case of LifeWatch: biodiversity research infrastructure





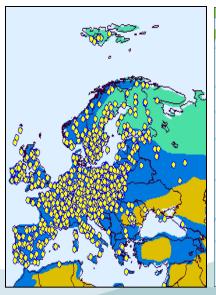
### Distributed data generation

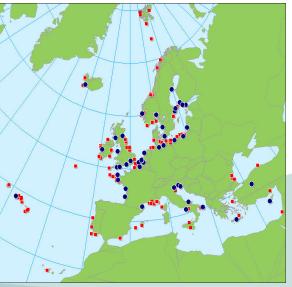
Terrestrial monitoring

Marine monitoring

Natural science collections

Earth observation









Applications

Analysis/ Modelling

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Data integration



Data management



Data generation (digitizing; sampling; sensoring

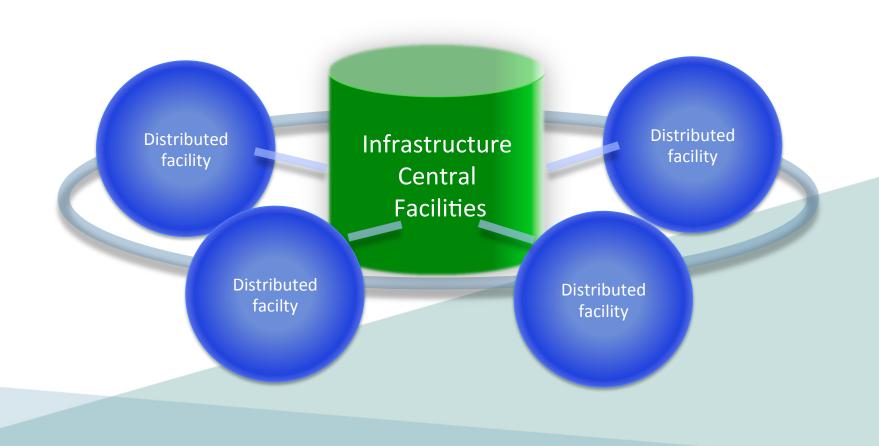
Research Infrastructure

Data filtering in national computing centres

Distributed (independent)
Data generators

Large Hadron Collider case

LifeWatch case



RAMIRI

