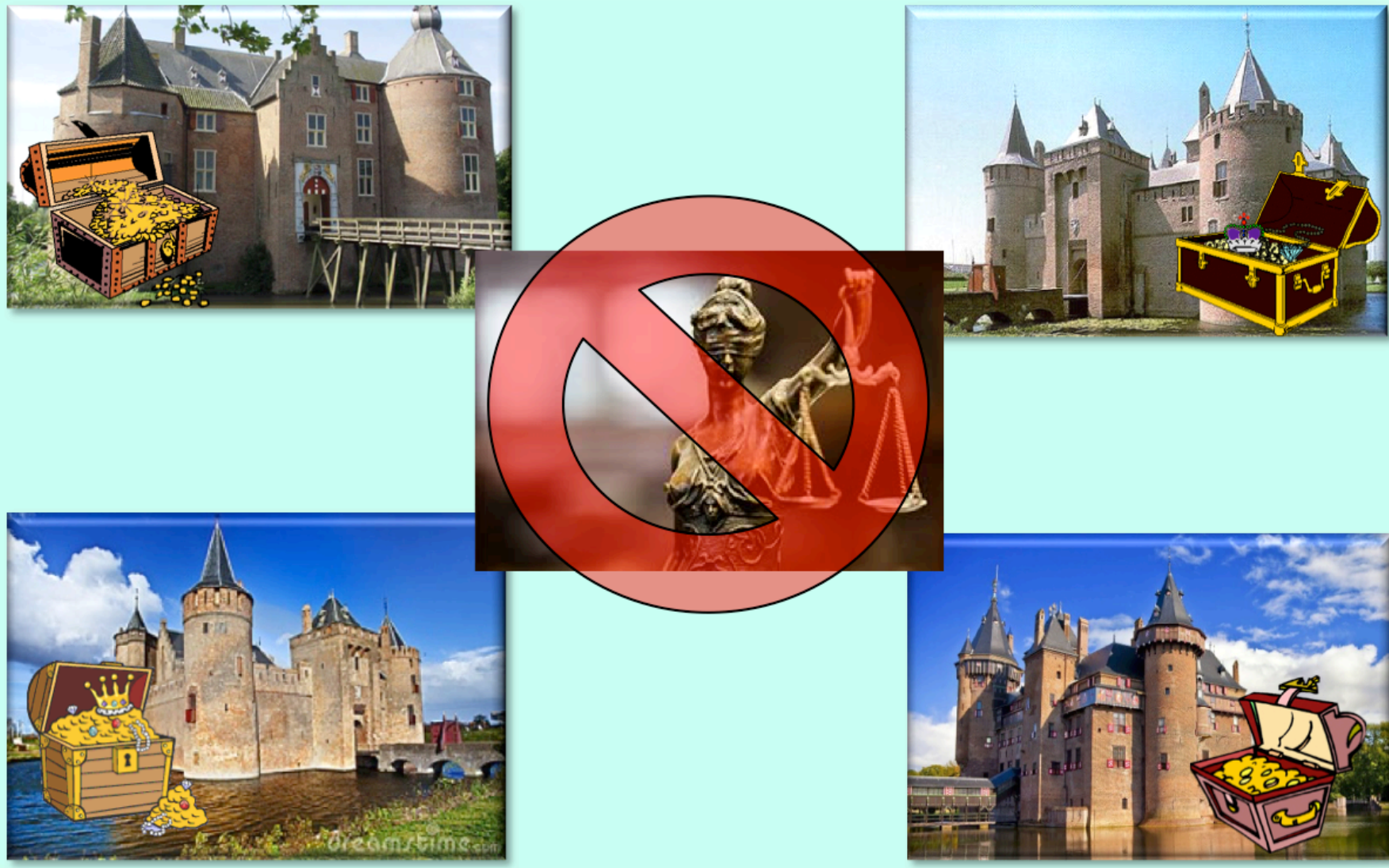


# Trusted Multidomain Big Data Sharing using HPCN

## Researching the value of future Internet capabilities

Leon Gommans, Ameneh Deljoo, Ralph Koning, Ben de Graaff, Tristan Suerink, Paola Grosso, Gerben van Malenstein, Axel Berg, Erik Huizer, Rob Meijer, Tom van Engers, Cees de Laat

### Many organizations have concerns to share Big Data Assets

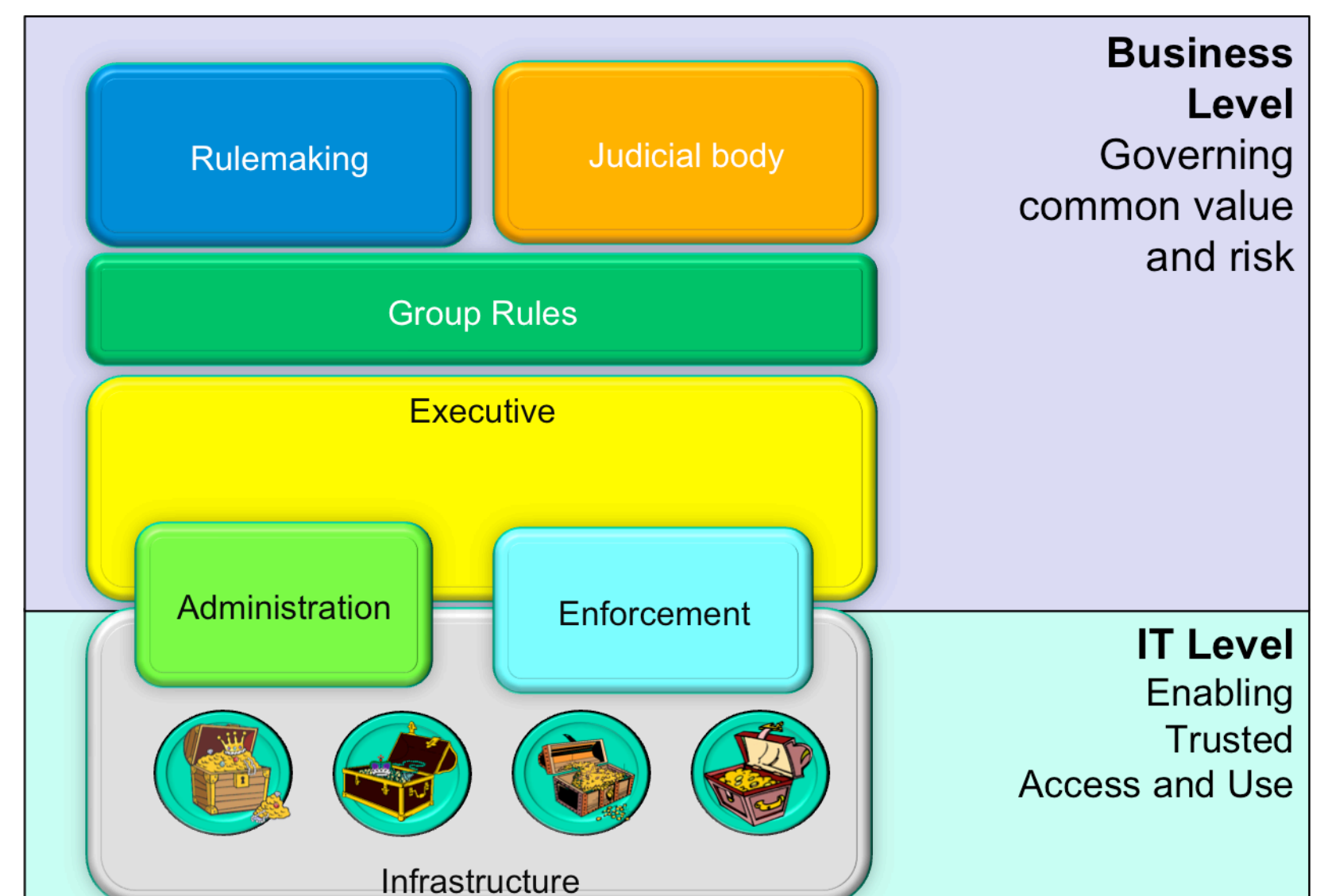


- Potential Business Value
- Intellectual Property Rights
- Data Protection Regulation
- Privacy
- Liability
- etc..

### Requirements to address concerns about sharing

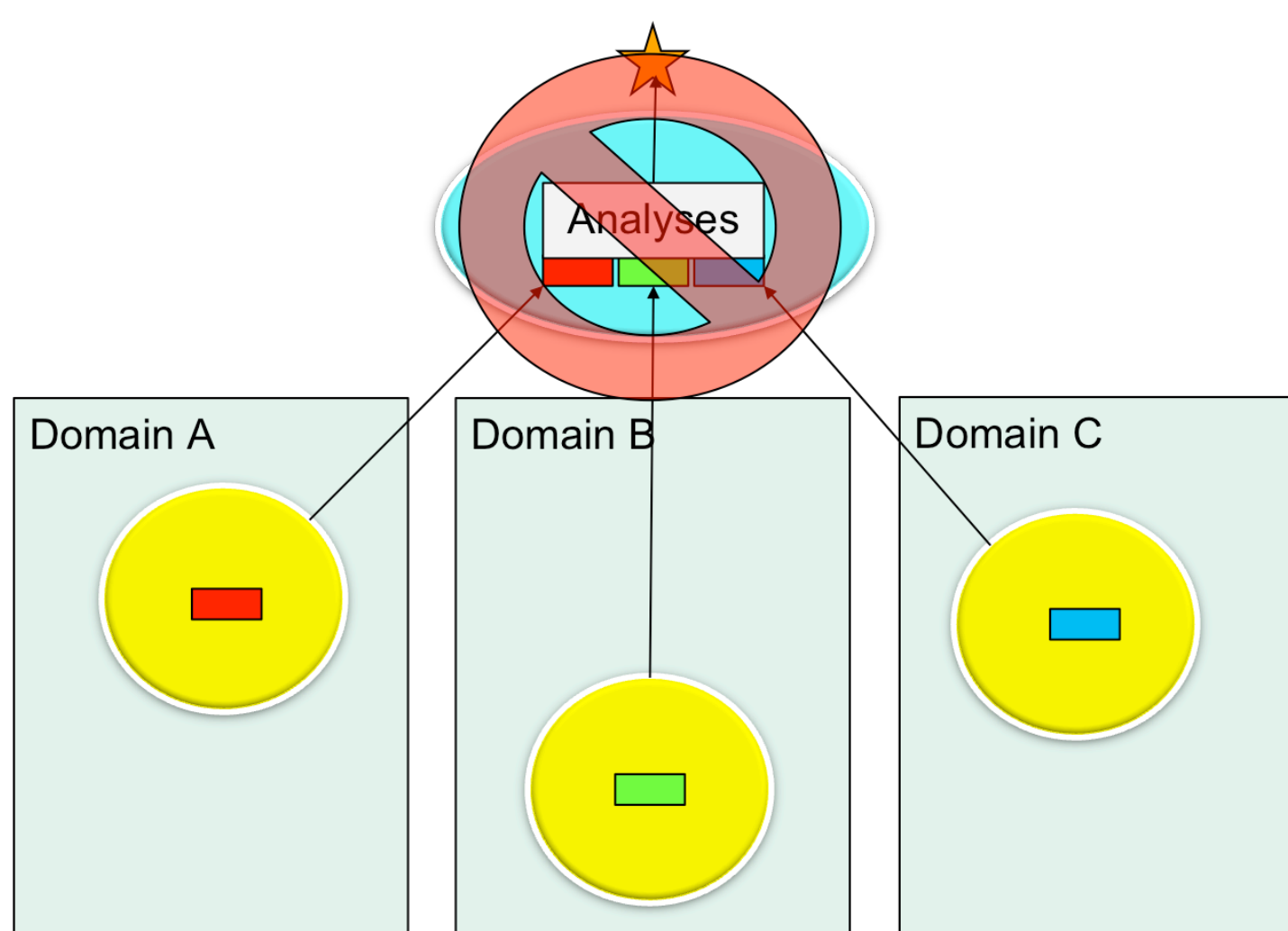


- Clearly defined and agreed common benefit
- Common rules governing use, access AND benefit sharing
- organizing trust amongst group members as means to reduce risk
- Infrastructure supporting the implementation of trust

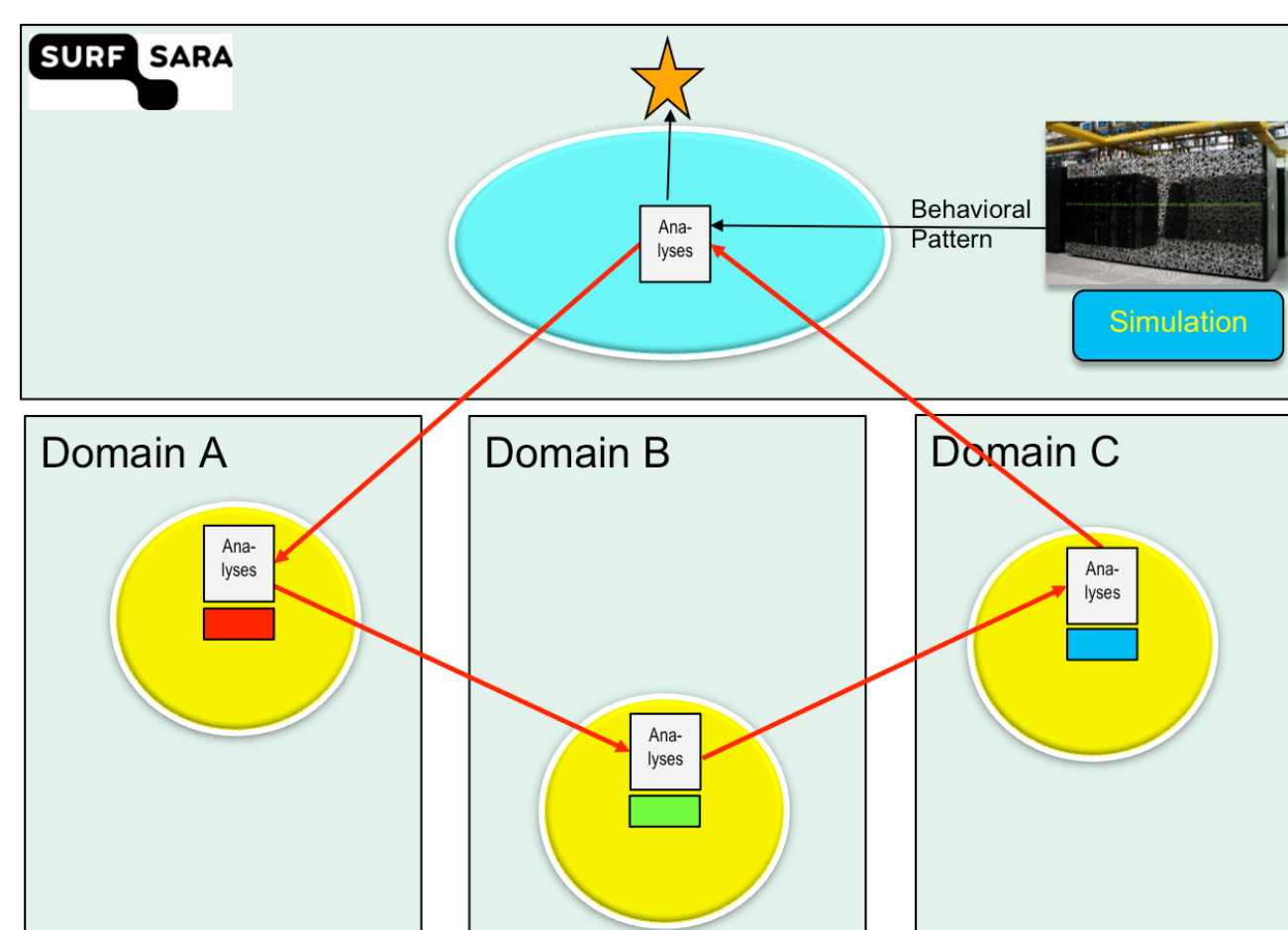


Organizing Trust using the Service Provider Group concept  
Leon Gommans "Multidomain Authorization for e-Infrastructures" PhD Thesis chapter 5.

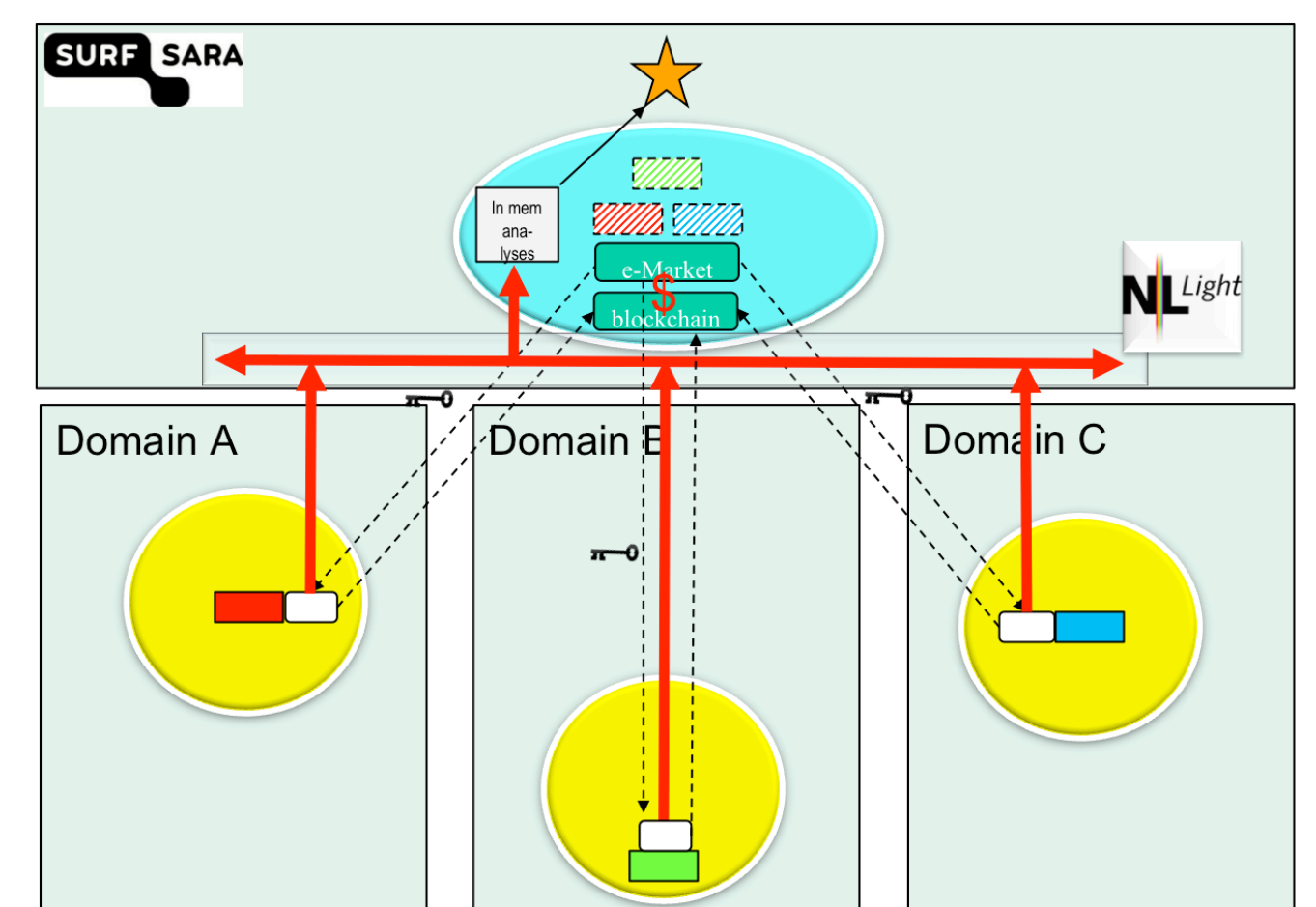
### Example HPCN based Infrastructure Models



Public cloud model



Turntable model



Value hub model

Demo at Supercomputing 2005: Seamless Live Migration of Virtual Machines over the MAN/WAN  
Franco Travostino, Paul Daspt, Leon Gommans, Chetan Jog, Cees de Laat, Joe Mambretti, Inder Monga, Bas van Oudenaarde, Satish Raghunath, Phil Wang - FGCS Oct 2006 pg 901-907.