

”Lessons learned”

- focus on the challenges

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- Cloud management middleware is not too hard
 - Easy to forget if not used regularly
- Hardware
 - OK?
 - Availability good
 - Some flexibility in RAM and storage configurations
- NFS over long latency requires tuning

Cluster has a low utilisation rate i.e. wasted resources



➤ *Why the under utilisation?*

- Customer dedicated resources without being charged
- *No time to integrate system and learn?*
- *Resources not needed? Kept just in case?*
- *Is the service unsuitable?*

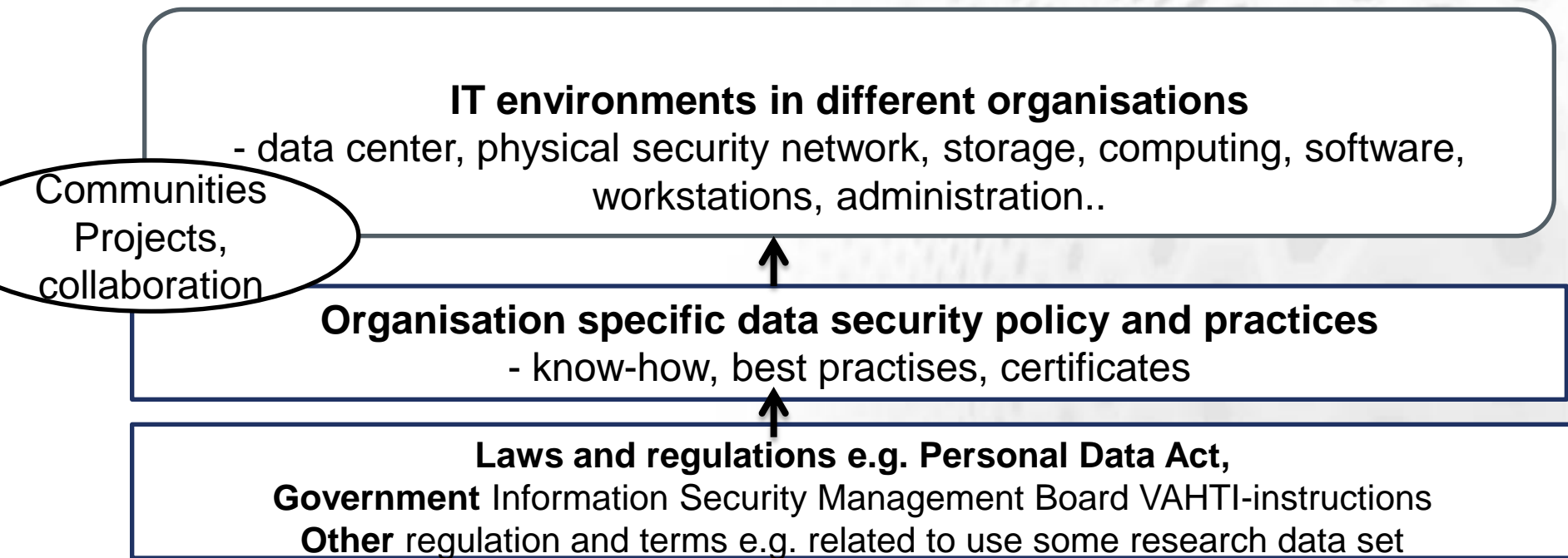
➤ *What should CSC do?*

- Enhance resource allocation **policy**? Enforce?
- **Technical means** for efficiency
- More **users for the virtual clusters**?

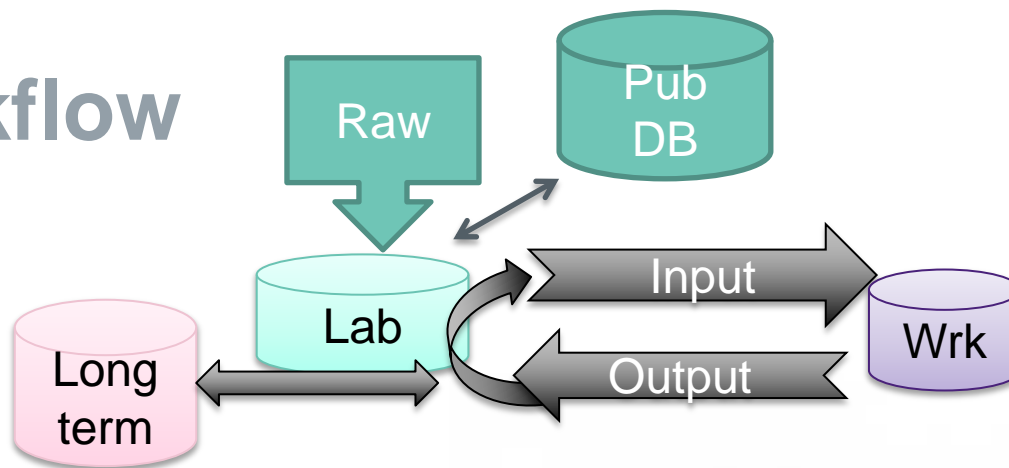
Data security



- *What kind of technical measures does sensitive data require?*
- *Is our solution fine?*



Data workflow



- Ext. hard disks, NAS servers, NFS, scratch..
 - computable accessible, performance, reliability, €/TB, allocation policy&purpose, security
- *Data movement difficult? Network bottlenecks?*
- <http://www.tdata.fi>
- *CSC's role in **reference** data mirroring?*

Communicating about the service



What is it?
Suitable for us?
€?

How much effort needed (integration)?

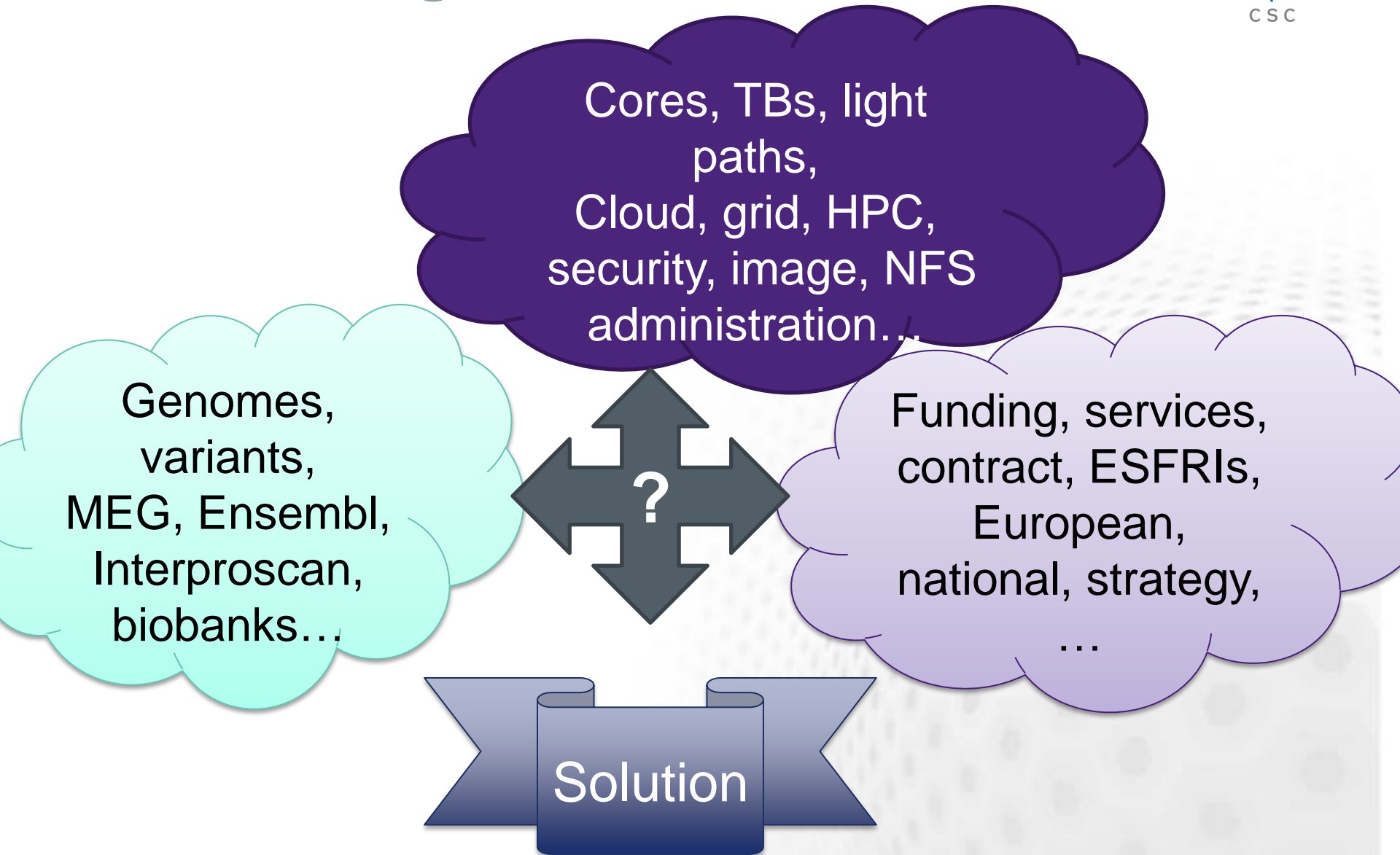
How to use?

Sustainability?

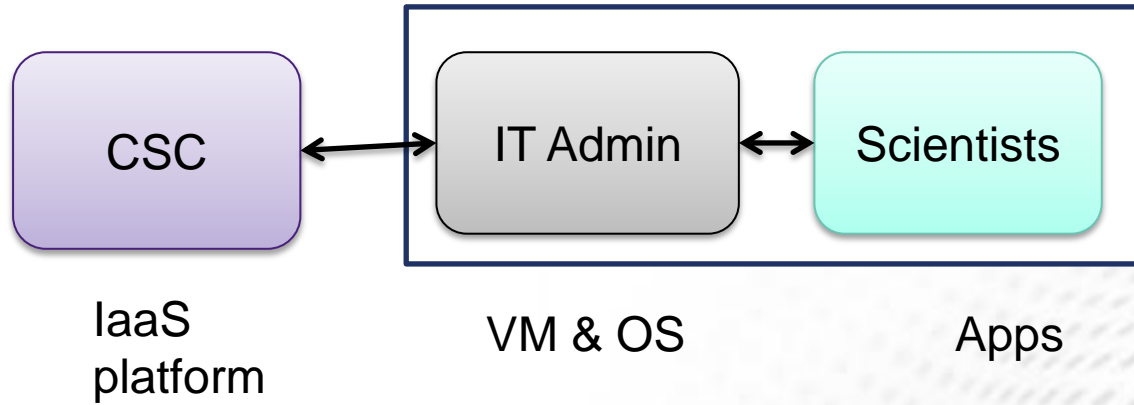
Risks?

Face 2 face discussion(s) with all pilots

Understanding each other?



Work division?



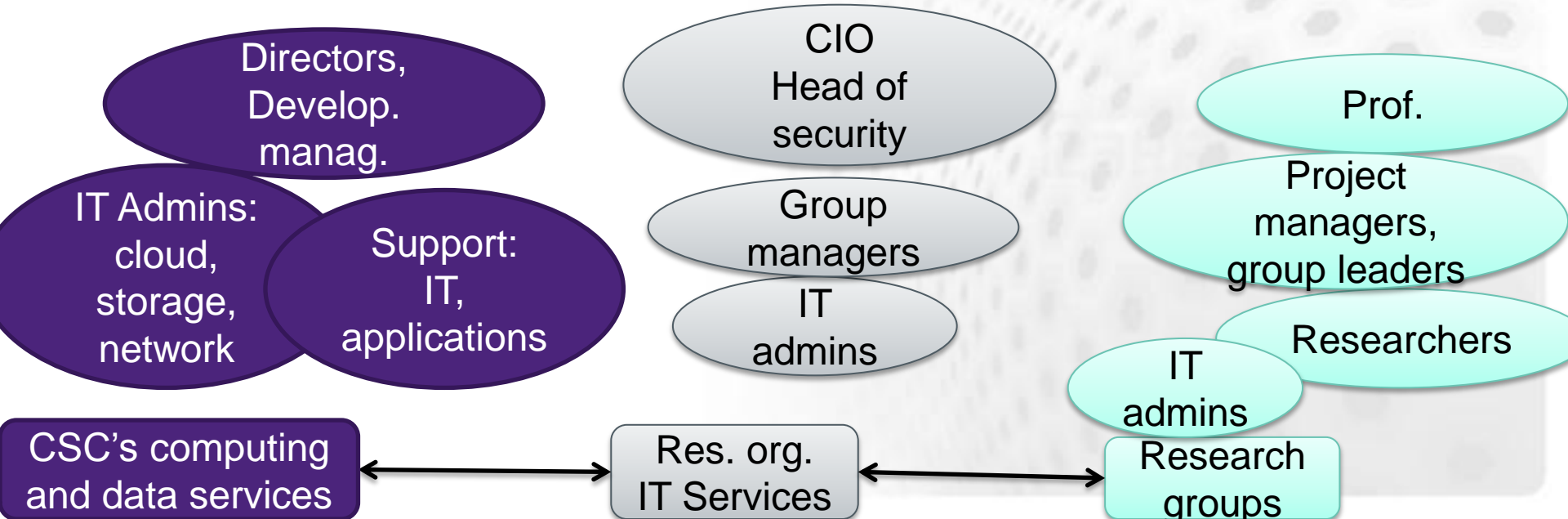
OK?

The actual playground

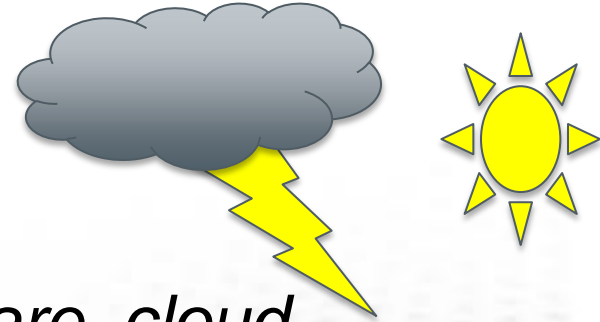
With whom to discuss?

Who has the ball?

End – to – End integration project and processes



Goal: getting users involved



- CSC might not always know *who are cloud the end users and their pain points?*
- Questionnaires
- *Did you feel that CSC was interested in your needs and how you are doing?*
- *Did we success in "open innovation model"?*

Community building



- CSC has not progressed this really.
 - *What should we do? Is there interest and wishes?*
- Collaboration in software environment developing
 - Avoid doing same work many times. Ready to use.
 - <http://cloudbiolinux.org/>
 - Distribute your product.
 - <http://chipster.sourceforge.net/downloads.shtml>
 - Virtual Machine image file, scripts, documentation..

