

Infrastructure summary

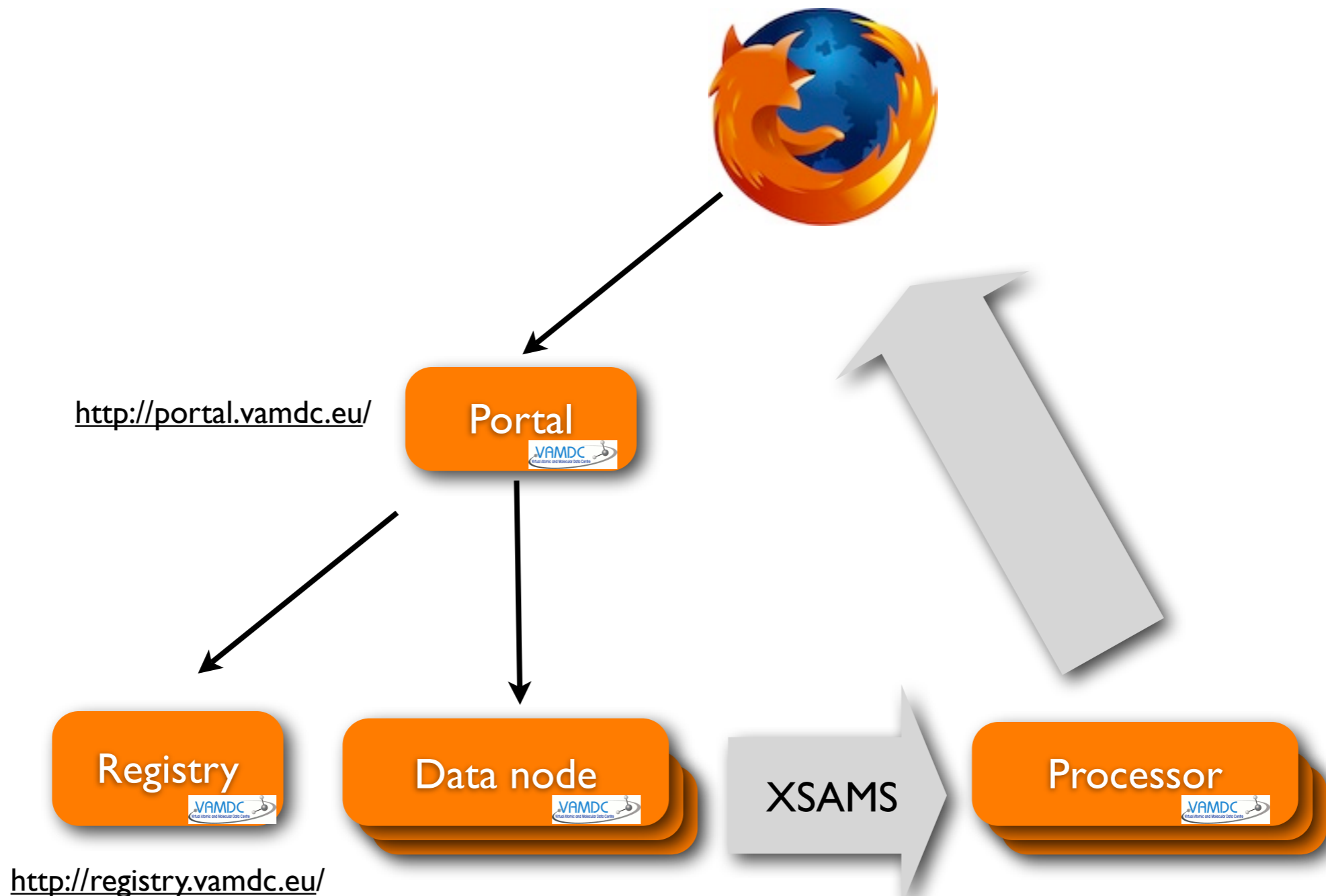
VAMDC project meeting, Meudon, November 2012

Guy Rixon

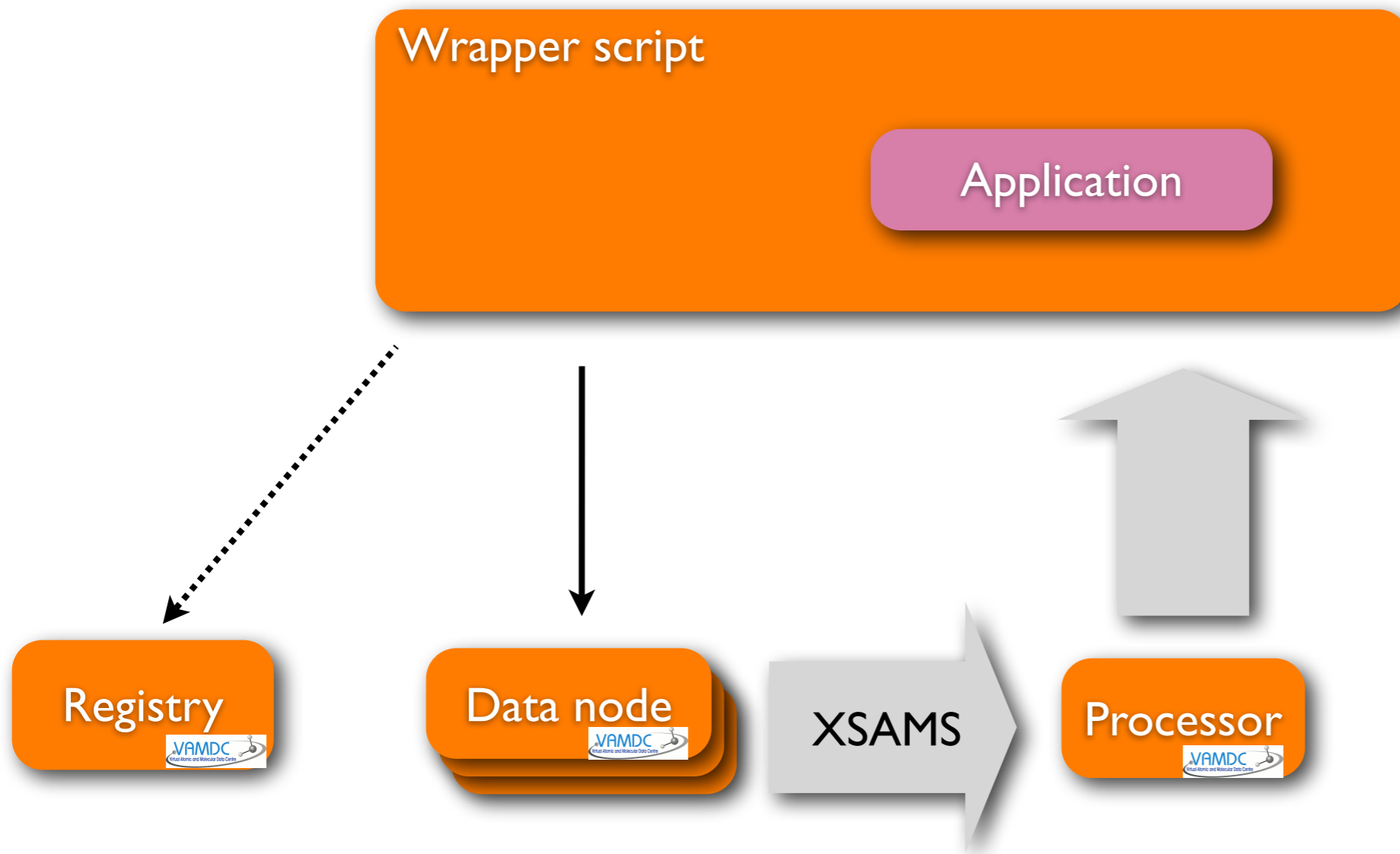
Topics

- (What is “the VAMDC infrastructure”?)
- What do we have now?
- What should we add before project end?
- How will the infrastructure evolve after the project?

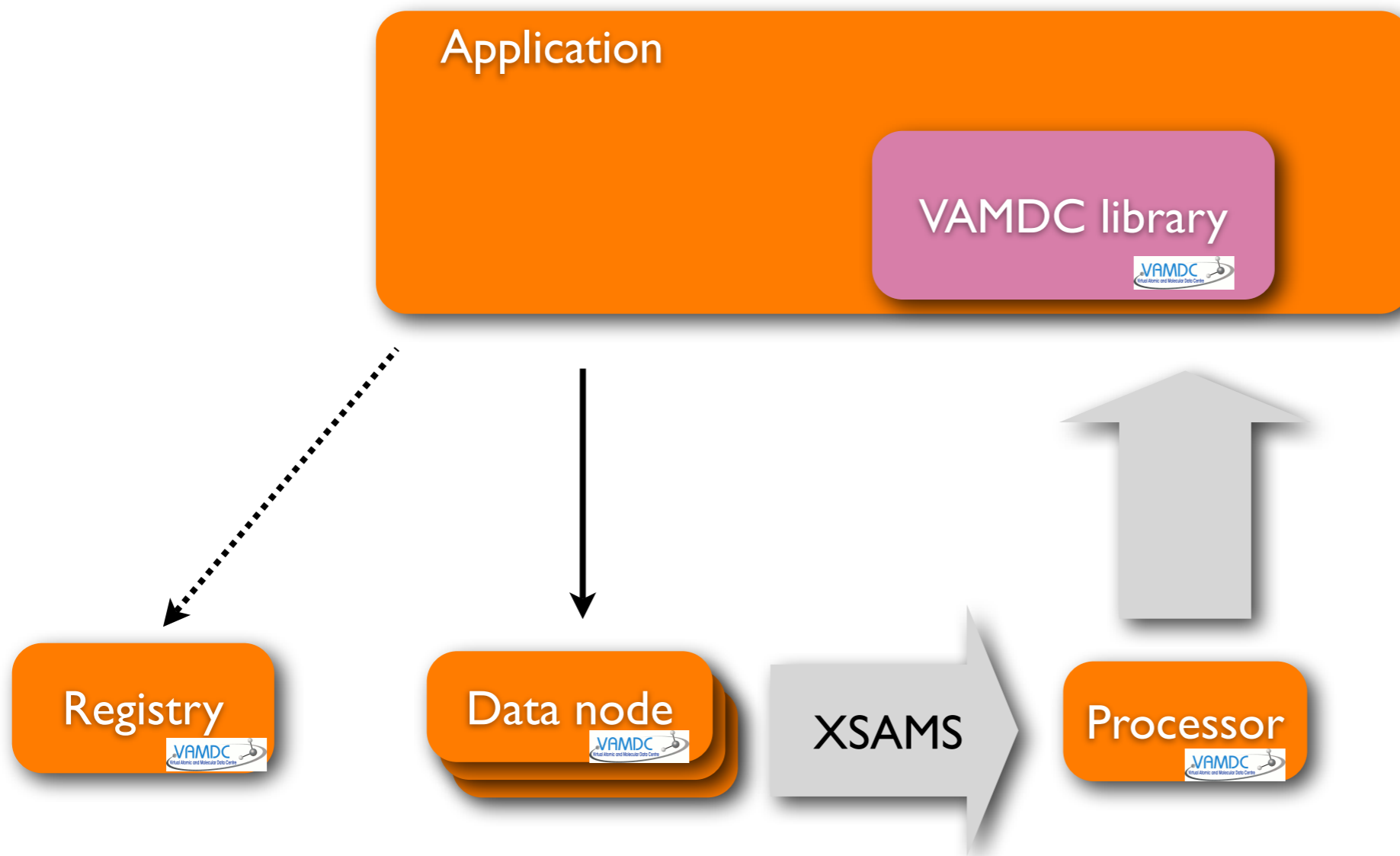
Portal, nodes & processors



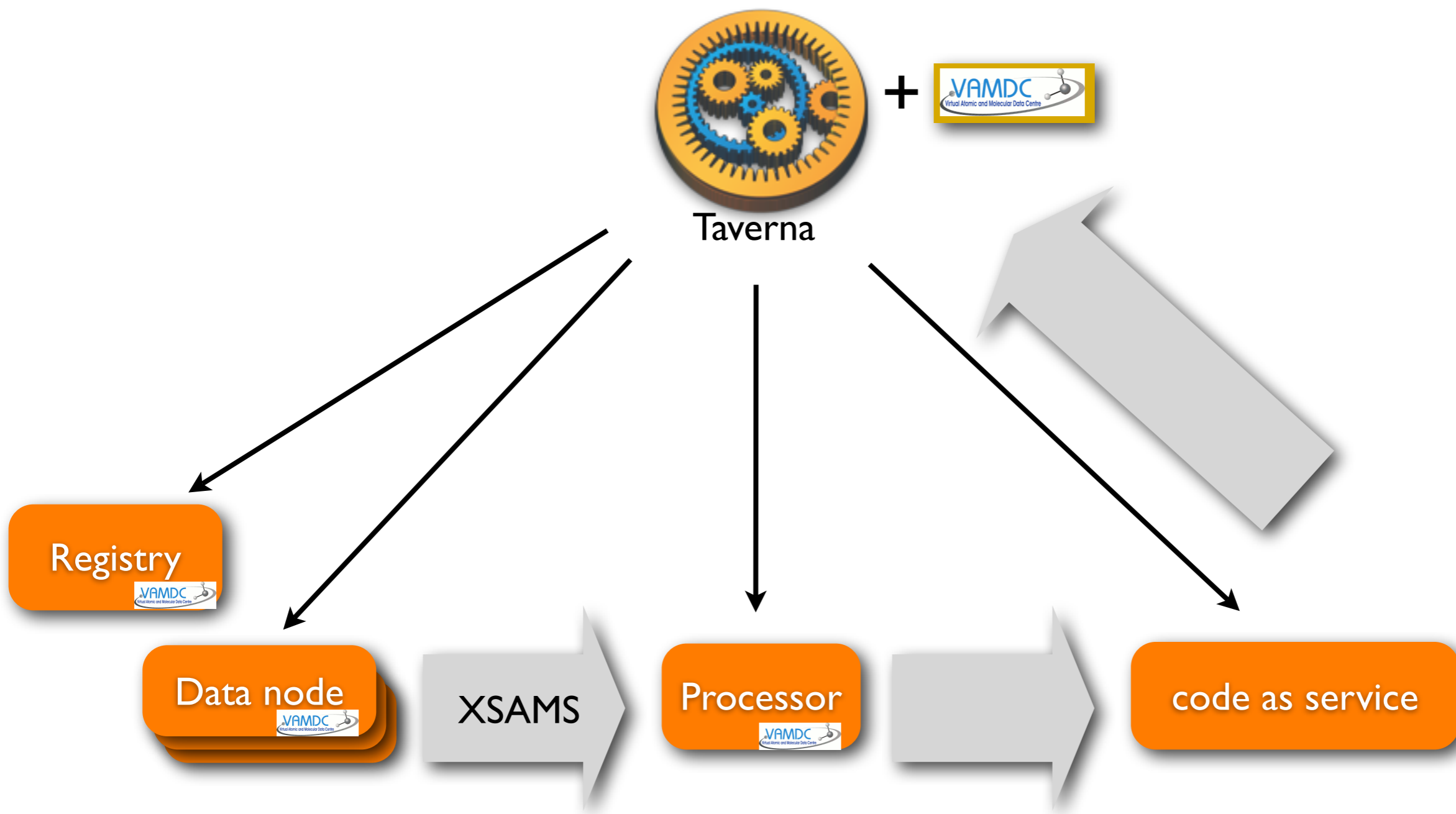
Wrapped application



Adapted application



Taverna; code as service





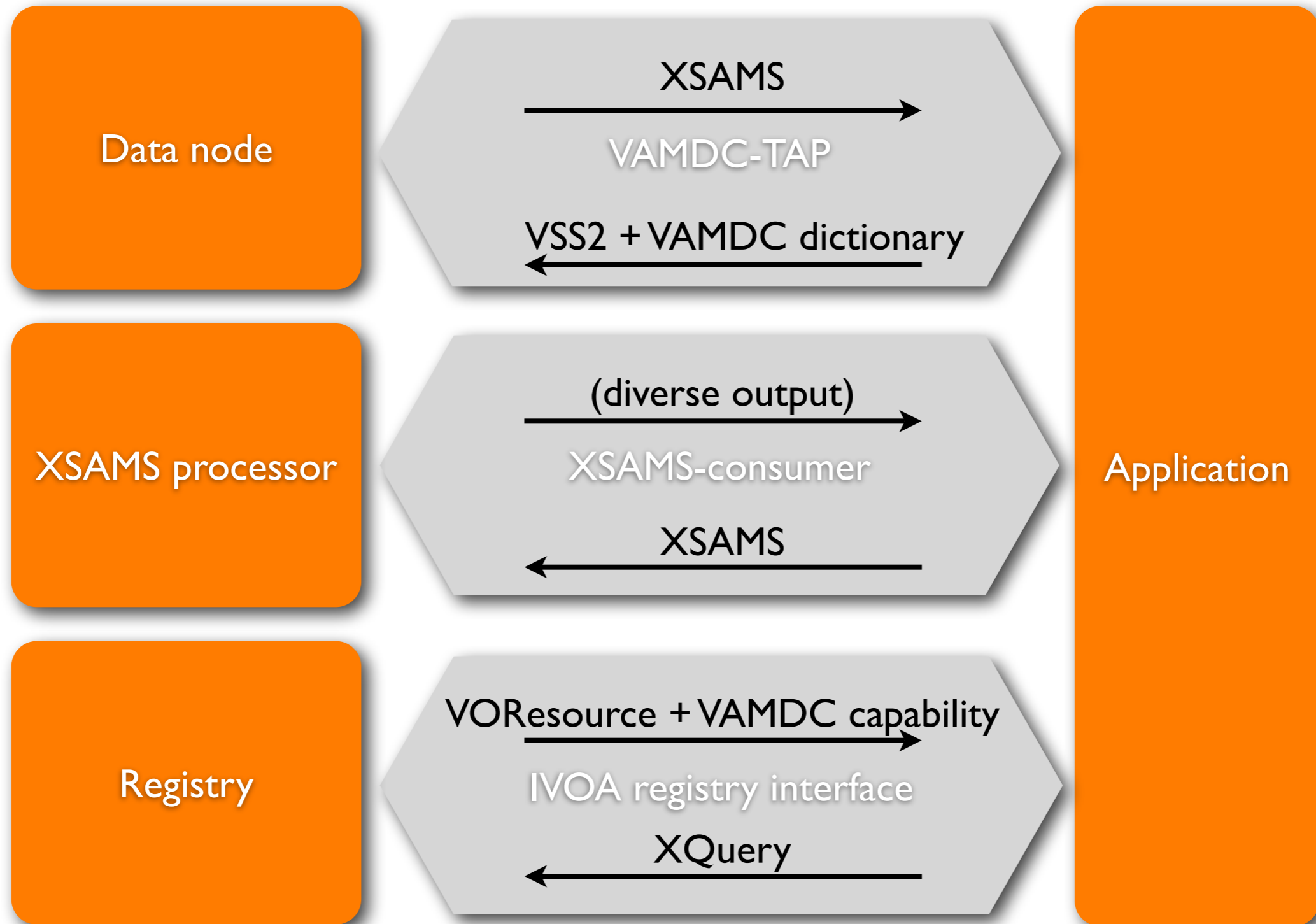
= “infrastructure”

(i.e. not every VAMDC product is infrastructure)

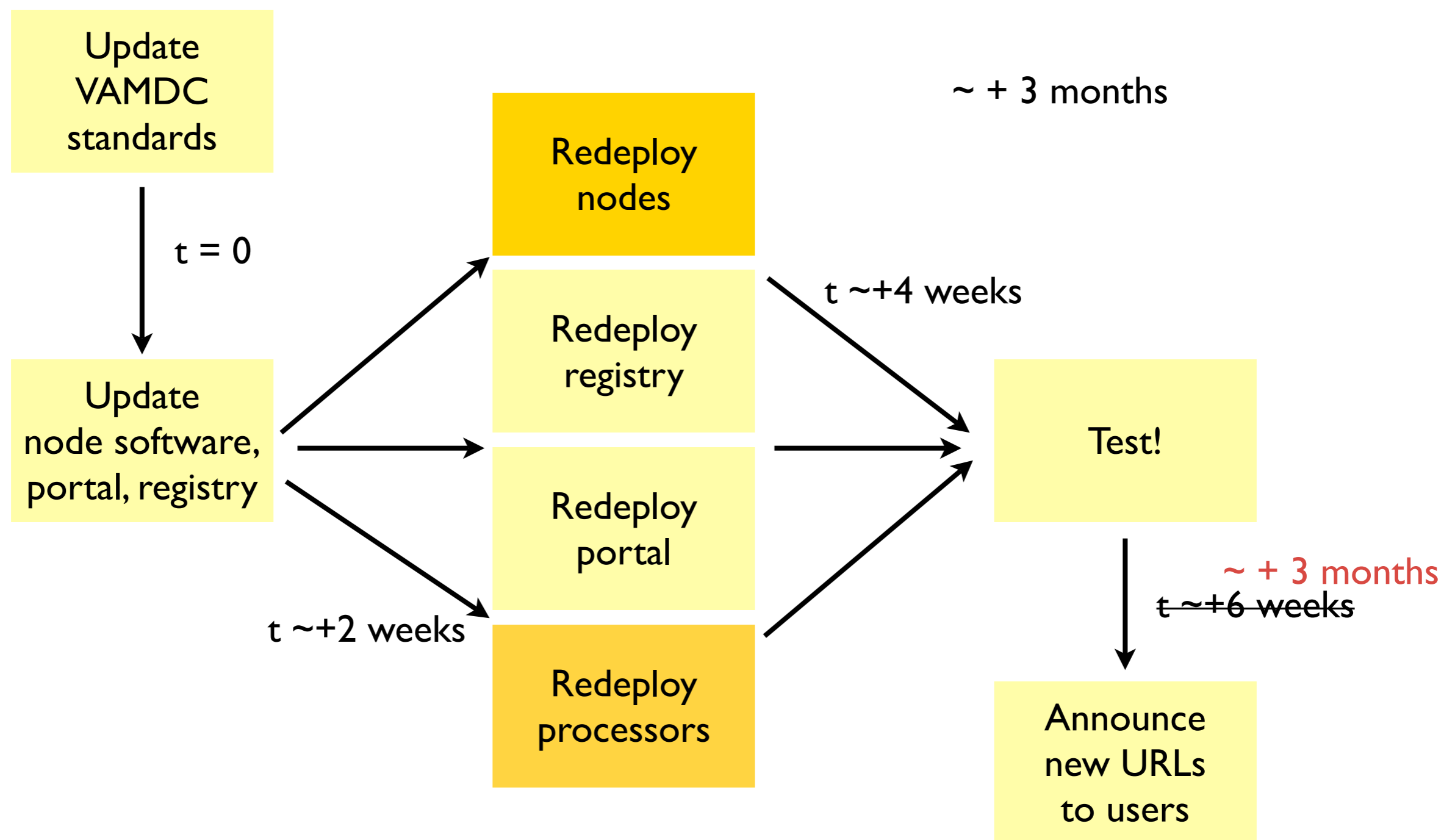
System versions

- System version defined by standards version
- Three so far:
 - 11.05 (withdrawn)
 - 11.12 (current, released)
 - 12.07 (in preparation, to be released in 2012)
- Expect one new version per year from now on

The core standards



Annual updates of standards



11.05 system (RIP)

- ~18 data-nodes, of which ~10 working
- No XSAMS processors (not invented yet)
- Prototype portal
- Registry
- XSAMS 0.2
- No libraries

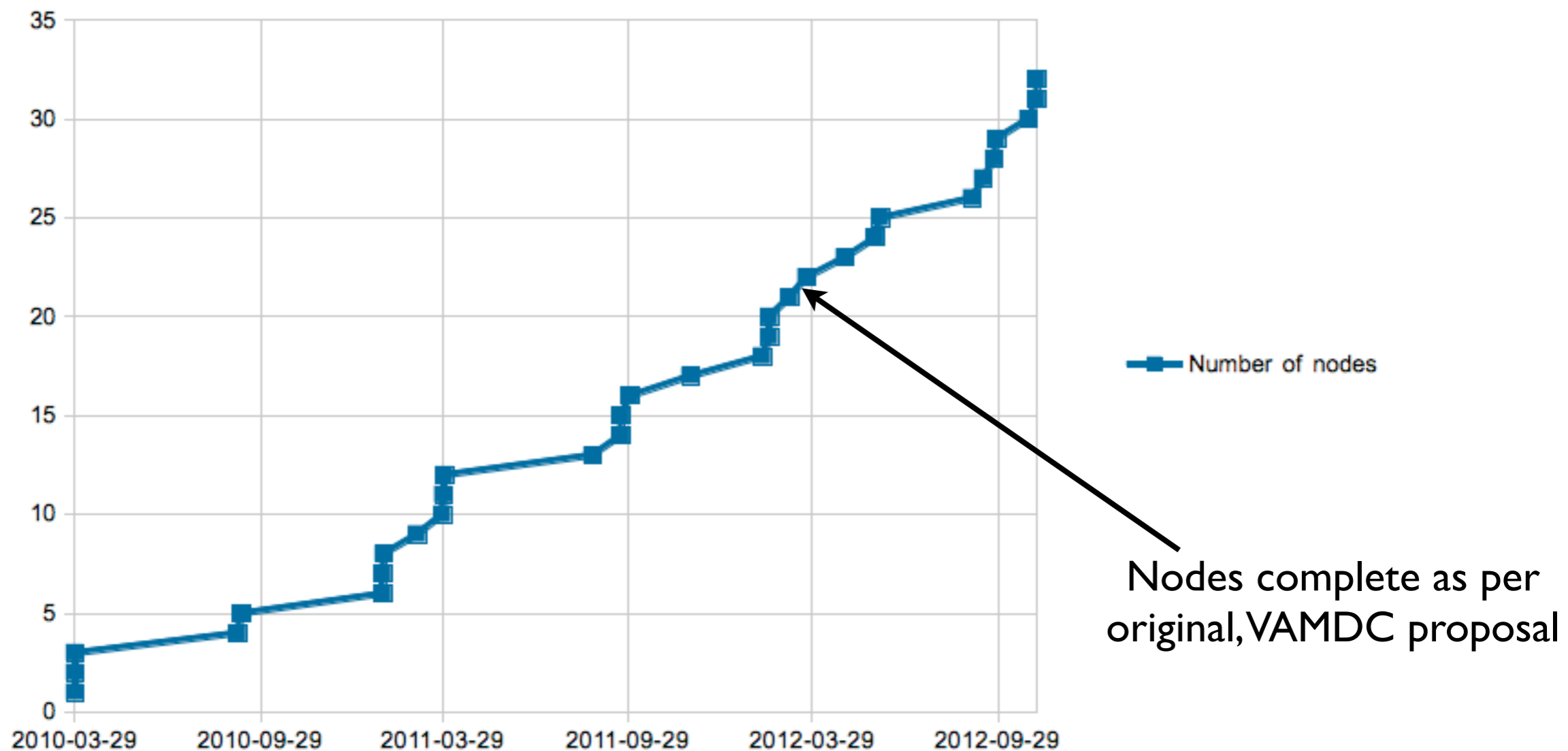
11.12 system

- 22 data-nodes of which 11 fully compliant
- 3 XSAM processors
- Production portal: http://portal.vamdc.eu/vamdc_portal/
- Registry: <http://registry.vamdc.eu/registry-12.07/>
- XSAMS 0.3
- Libraries for Java, Python

I 2.07 system

- 32 data-nodes (!), of which:
 - 26 distinct databases
 - 17 working and compliant
 - 10 upgraded to I 2.07 standards, rest still I 1.12
- 5 XSAMS processors
- Portal: http://portal.vamdc.eu/vamdc_portal_dev/
- Registry: <http://registry.vamdc.eu/registry-I2.07/>
- Libraries for Java, Python, Taverna

Timeline of node registrations



To do before end of 2012

- Finish the 12.07 system!
- Node metadata documents
- Arrange maintenance
- Final report (“architecture manual”)

Finishing the 12.07 system

- Fix the data nodes:
 - Release (Python) node software (by 2012-11-17?)
 - Upgrade to correct standards
 - Replication
 - Fix registrations
 - TAP validator
 - Compliance check (<http://voplus.obspm.fr/vamdc/validation/compliance.html>)
- Upgrades to existing XSAMS-processors

Node maintenance

- Nodes owners to do own, local maintenance
 - Respond to support requests (support@vamdc.eu)
 - Annual standards update
 - Keep last two versions of node running
 - Keep old data available (“asOfDate”)
- Similar for owners of consumer services

SUP@VAMDC

- 2 year, EU-funded project starting 2013
- Help for new nodes to join VAMDC
- Support existing nodes
- Maintain infrastructure:
 - Node software
 - Registry
 - Portal
 - libraries
- Volunteers for teams?

Future improvements

- Few more nodes
- Many more XSAMS processors (from community)
- Better libraries (e.g. C++ support)
- Incremental improvement to services: completeness, reliability, performance, etc.
- **More users, more applications**
- Toolmakers define future direction?