



Science & Technology Facilities Council

e-Science

# GOCDB-4 development status

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# GOCDDB-4 summary

- Key principles
  - Keep a central service
  - Build a sustainable regionalised architecture
  - Propose an implementation where nothing exists, work with existing solutions otherwise
- Use cases
  - Region 1: use a distributed GOCDDB instance
  - Region 2: keep on using central GOCDDB
  - Region 3: Use their own model and implementation

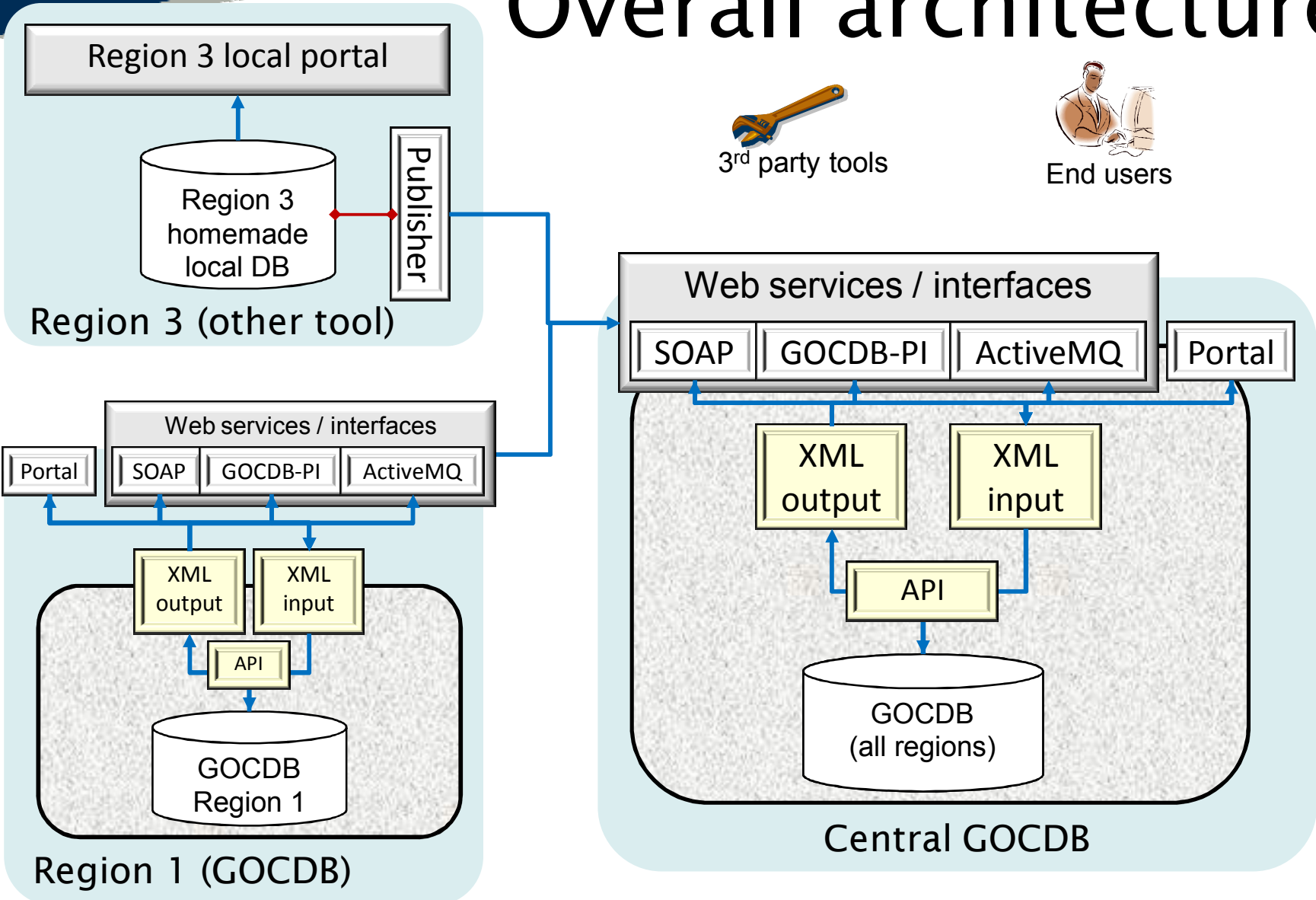


# Where are we?

- Plans and milestones are online:
  - [http://goc.grid.sinica.edu.tw/gocwiki/GOCDB4\\_development](http://goc.grid.sinica.edu.tw/gocwiki/GOCDB4_development)
- Currently we have:
  - A clear view of the overall architecture
  - A data model defined and implemented
  - I/O data exchange formats defined
  - I/O interfaces under development
  - A basic web portal under development
  - A deployable regional prototype

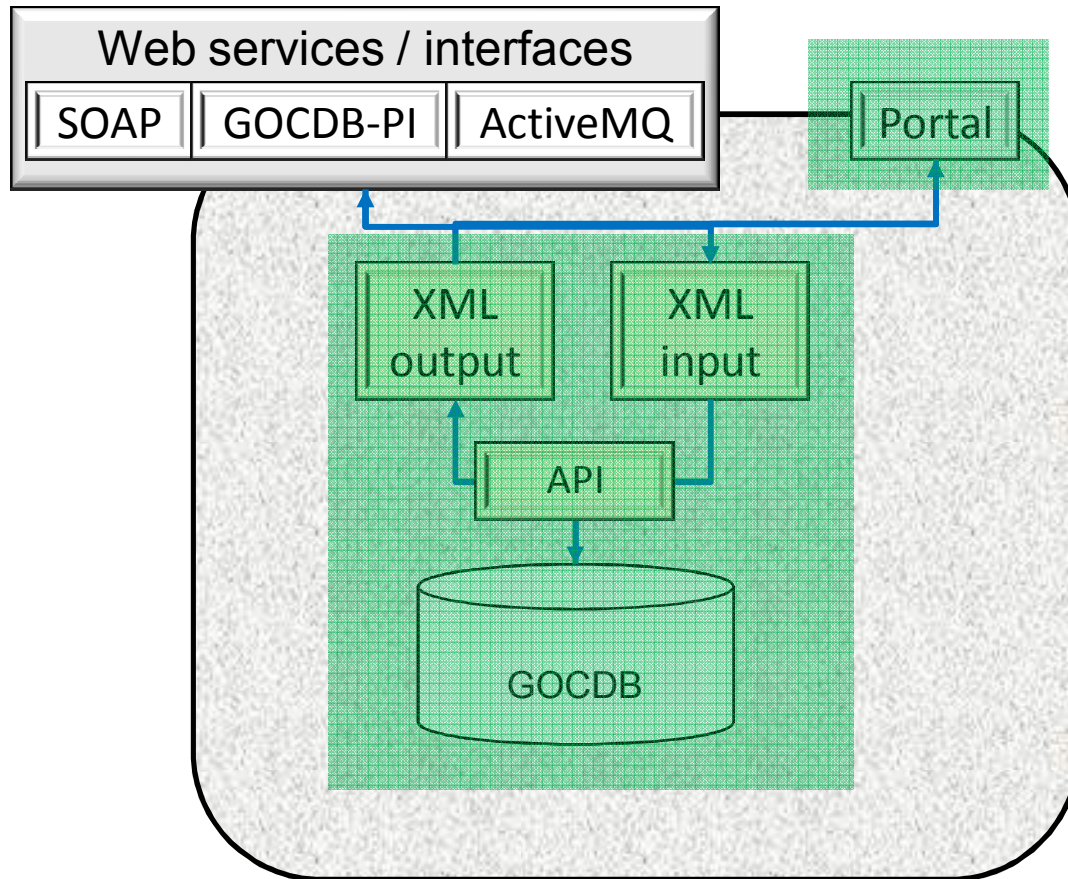


# Overall architecture





# What is started/done?



- Portal Prototype

- XML I/O modules prototypes

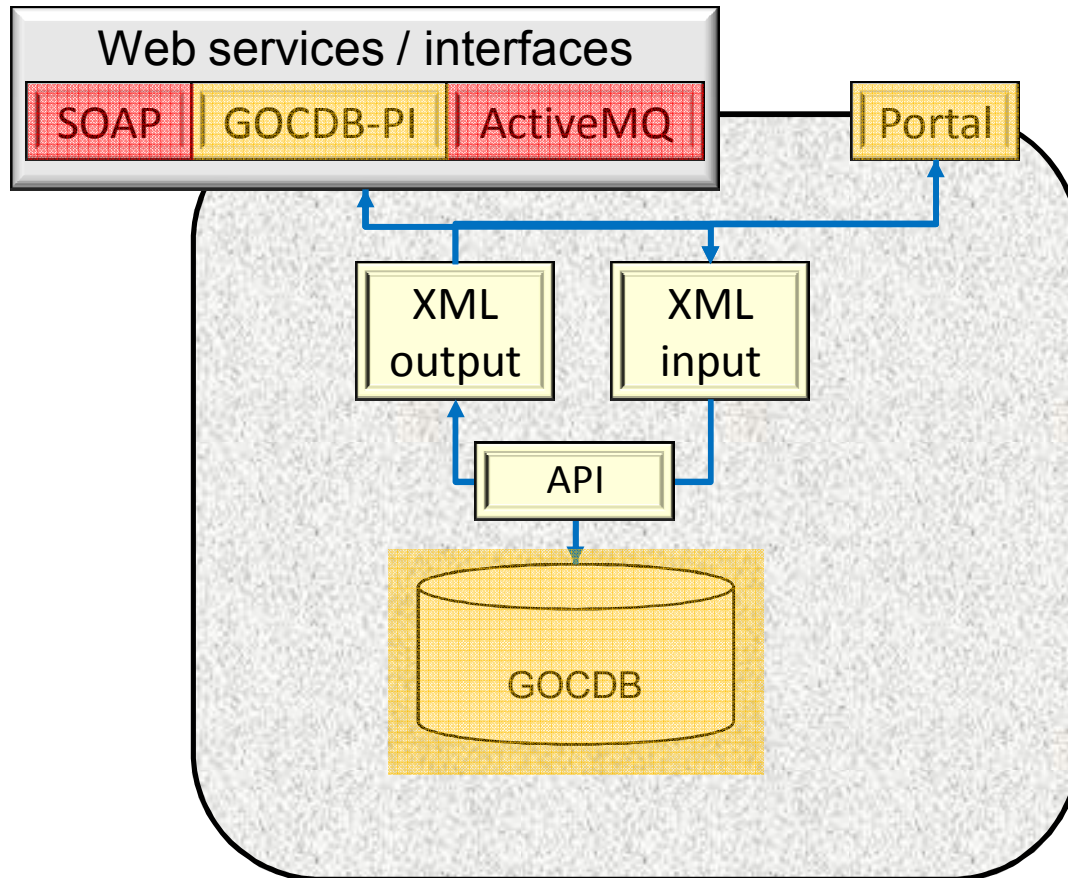
- First level API

- Data model

- Complete deployment script for regions



# What remains to do?



- Web services and interfaces (migration from GOCDDB-3 + new development)
- Complete web portal
  - GOCDDB3 functionalities
  - User management
- Packaging
- Data migration and validation



# from GOCDDB3 to GOCDDB4

JULY

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

GOCDDB 3

GOCDDB3 in production

writing data migration scripts

finalising data migration scripts

GOCDDB3 deprecated

data migration (test)

data migration (test)

data migration (production)

GOCDDB 4

Central prototype ready

Regional prototype packaged

Deployment tests in pilot regions

Schema validation

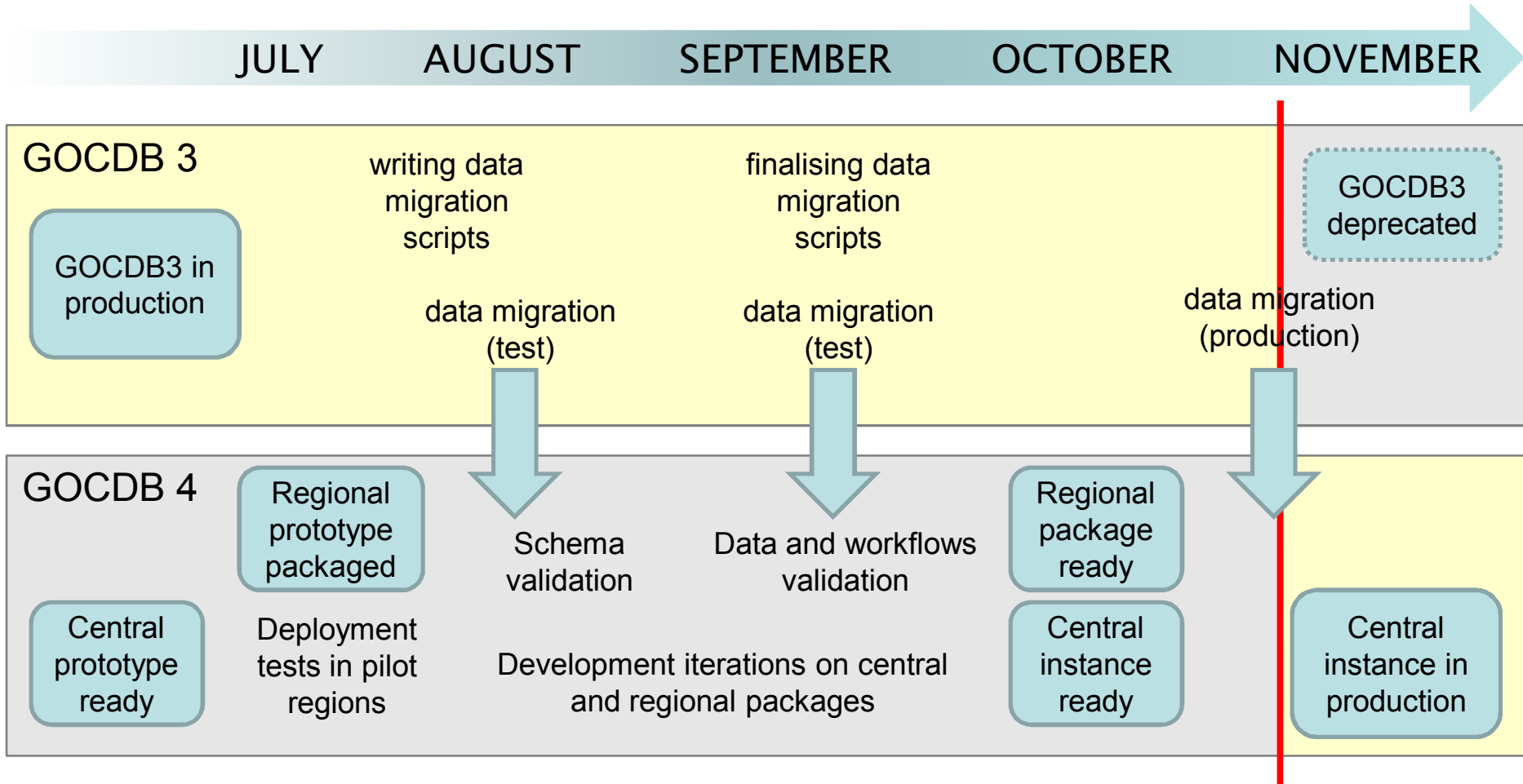
Data and workflows validation

Regional package ready

Central instance ready

Development iterations on central and regional packages

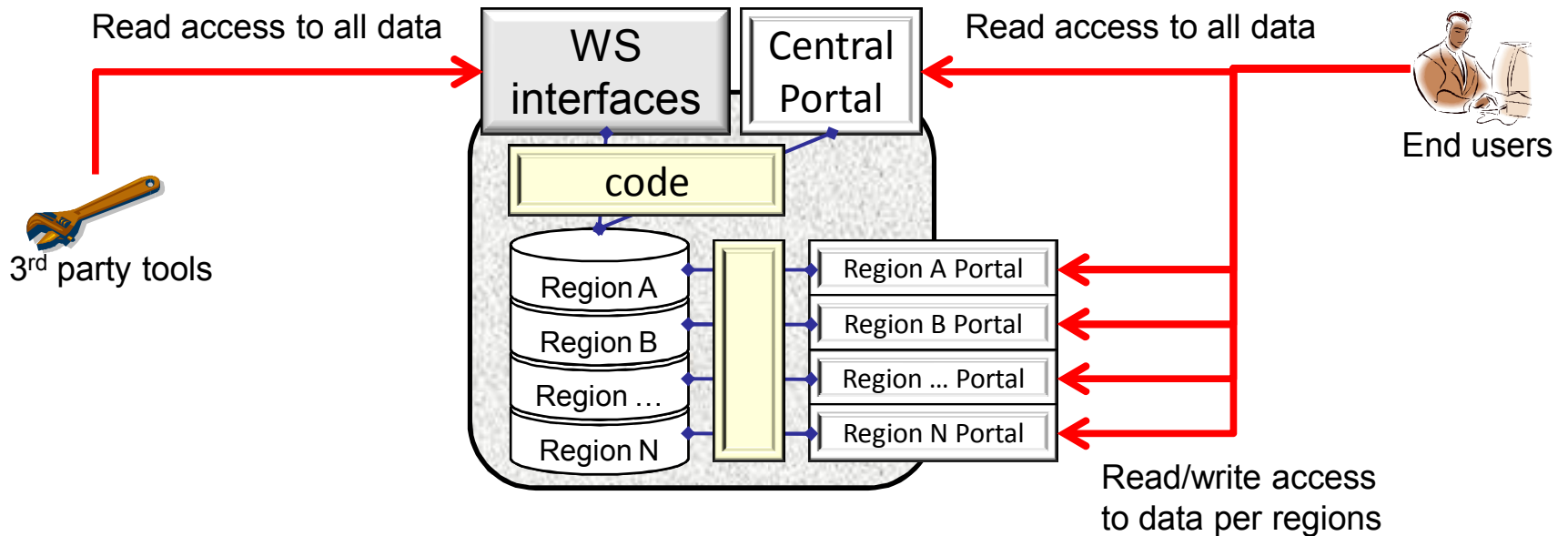
Central instance in production





# from GOCDDB3 to GOCDDB4

What will GOCDDB-4 central instance look like at the beginning of November?

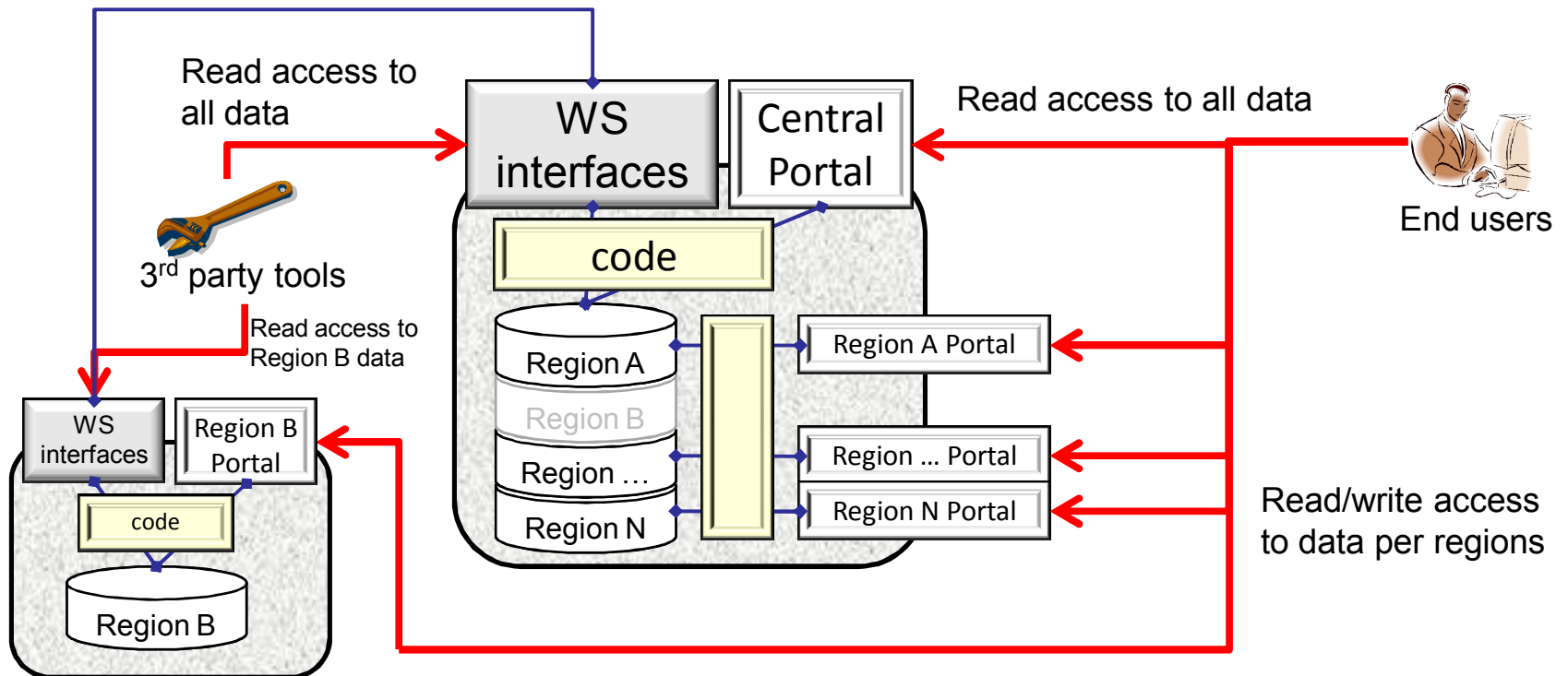






# from GOCDDB3 to GOCDDB4

How will first pilot regions integrate to this?





# Items for discussion

- Role handling in a distributed DB
  - What about central roles: ROC managers, c-CODs, Security Officers...
- What about various rules?
  - Downtime classification rules might be different from one project to the other

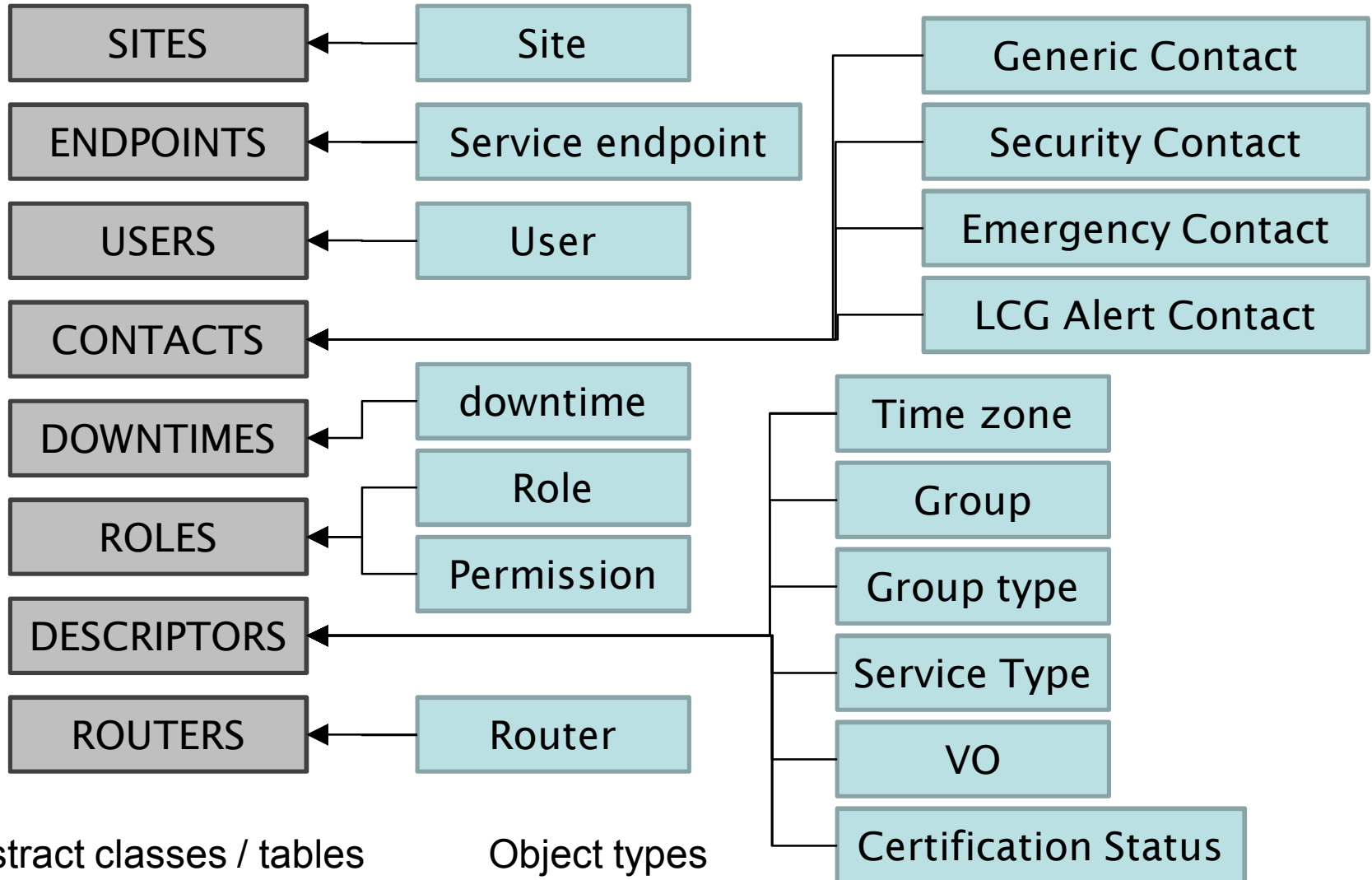


# Appendixes

- Data schema overview
- Links examples



# Data schema overview



Abstract classes / tables

Object types



# Links example

