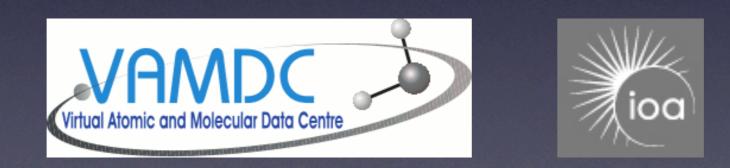
# QA ideas for VAMDC services

#### VAMDC PMI April 2010



#### What to test?

- Data services?
- Code-execution services?
- Data sets directly?

#### Test at the level of the web services



## Testing data services

"Does the service work?" = "Is the service up" and "Does the service respond to queries?" and "Is the response fast enough" and "Are the results syntactically correct?" and "Are the results scientifically correct?"

> Yellow  $\Rightarrow$  same for all services of a class Green  $\Rightarrow$  different tests for each service



## Smoke test vs. covering test

- "Smoke test":
  - Few queries (only one per service instance?)
  - Run frequently
  - Find "obvious" problems"
- Covering test:

  - Run occasionally
  - Find subtle problems
  - Best place to check scientific validity?



# Testing code execution

- Just like testing data service
- Code-execution service = data service with different query language



### Oracles

- Need sample queries for smoke test: who will supply?
- Science tests:
  - automated checking of metrics?
  - manual inspection?

