



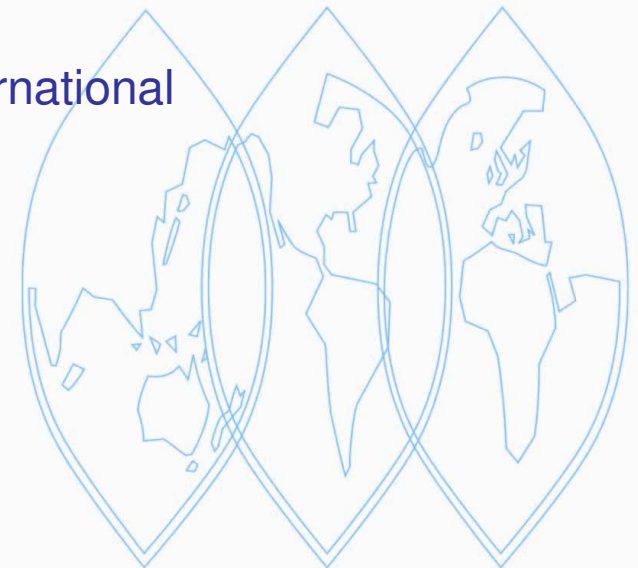
Scaling Up the Registry Operations

APTLD Non-Technical Training – Dubai

Tuesday June 6th 2007

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WHO IS AUSREGISTRY?

AusRegistry

- Registry Operator for the .au ccTLD since July 2002
- Operates .au Domain Name Servers (DNS)
- Consultation to industry and government
- Website: www.ausregistry.com.au

AusRegistry International

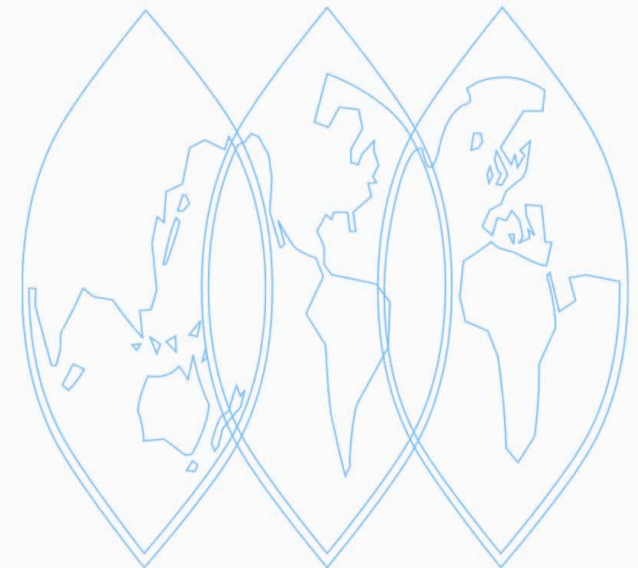
- Consults globally on ccTLD operations
- Registry Operator for the Australian ENUM Trial
- Registry Operator for the REC Registry
- Website: www.ausregistryint.com



SALABILITY

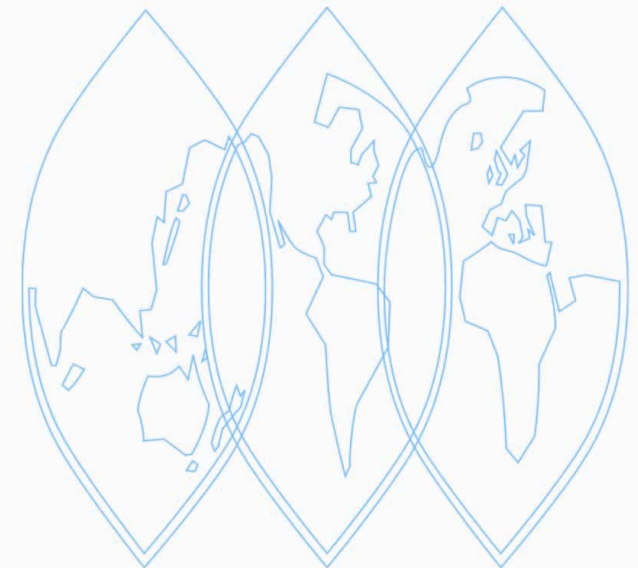
“... a desirable property of a system, a network or a process, which indicates its ability to either handle growing amounts of work in a graceful manner, or to be readily enlarged...”

Wikipedia



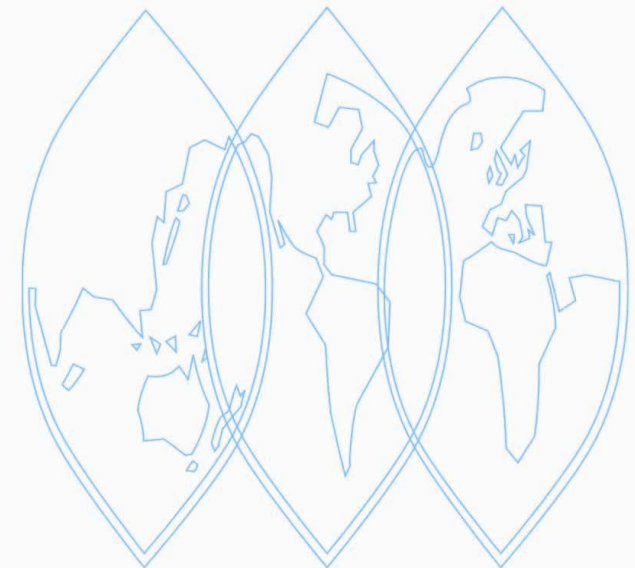
WHY BE SCALABLE?

- Registry Operators must take into consideration:
 - Growth
 - Policy
 - The Future
- Will you be able to meet you SLAs and the expectations of your stakeholders...



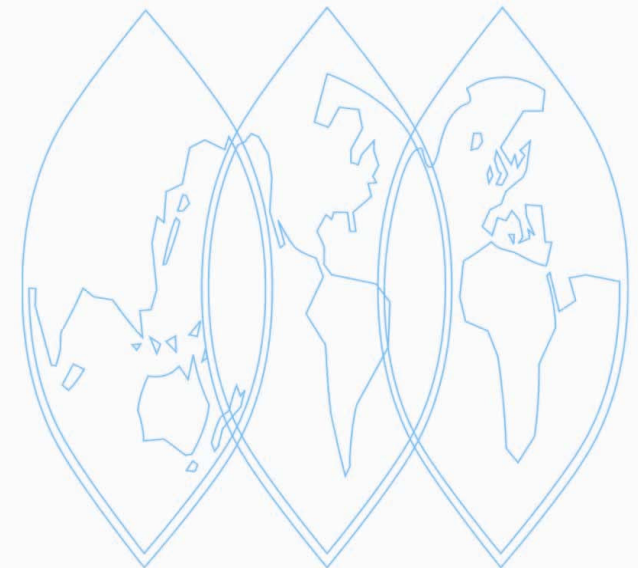
SCALABILITY – GROWTH

- Growth:
 - Increased registrations
 - Cheaper pricing
 - Increased population
 - Stronger economy



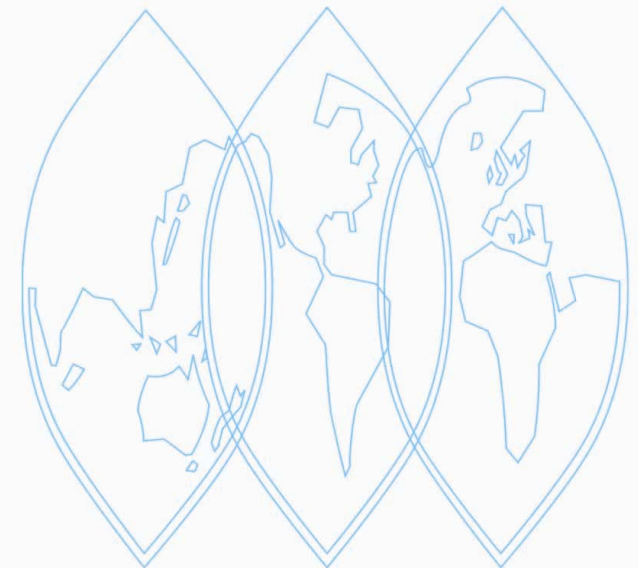
SCALABILITY – POLICY

- Policy:
 - Less restrictive eligibility criteria
 - Namespace opened up
E.g. the ability to register domains in the second level
 - New names introduced



SCALABILITY – THE FUTURE

- The Future:
 - New domain names (IDNs)
 - New technologies
 - Better infrastructure therefore accessibility to the internet
 - Internet savvy generation

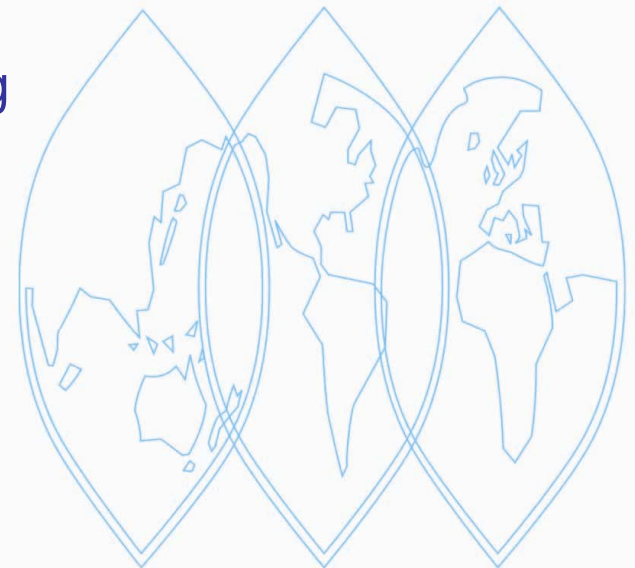


TECHNICAL CONSIDERATIONS

- Scale Up:
 - More power from bigger servers
 - Puts a lot of very critical eggs in one basket

OR...

- Scale Out:
 - Increased power from clustering
 - Highly available



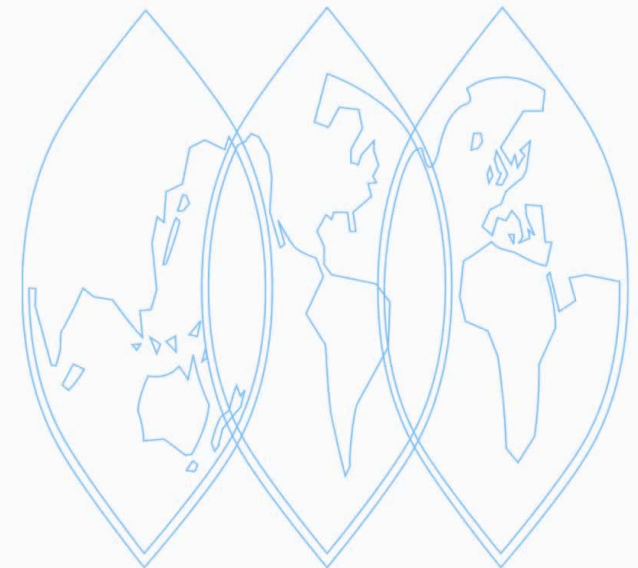
TECHNICAL CONSIDERATIONS

- Capacity planning:
 - Current trends
 - Modelling
 - ‘What if?’ scenarios
- If changes are required:
 - What is the time frame to deploy?
 - What is the cost of deployment?
 - Ensuring minimum disruption to stakeholders...



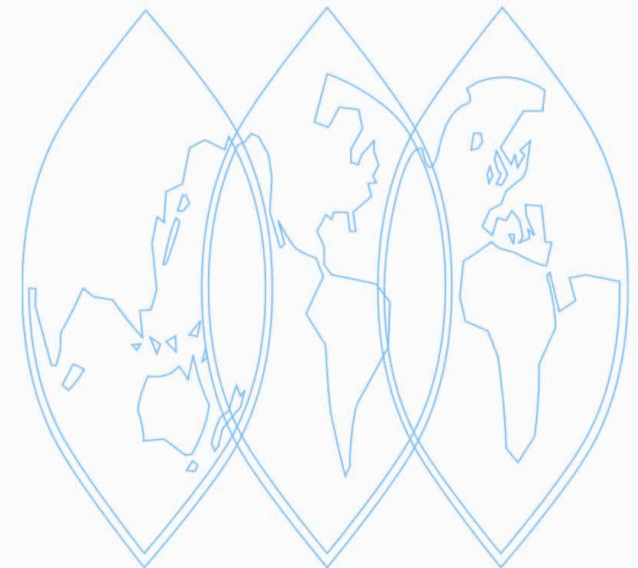
TECHNICAL CONSIDERATIONS

- Personnel:
 - Qualified technicians
 - Specialised fields
 - Key person redundancy
 - Security and background checks
 - Time to hire
 - Training



SERVICE CONSIDERATIONS

- Increased requirements:
 - Technical and Administrative support
- Stakeholder education
- Marketing
- Stakeholder involvement:
 - Reviews
 - Consultation process
- Time...



OPERATIONAL CONSIDERATIONS

- Financial:
 - Cost vs. benefit
 - Requirements
- Legal:
 - Agreements, including SLAs
- Recruitment
- Documentation:
 - Manuals
 - Job descriptions

