NREN Capability Maturity: The Case of the South African NREN

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… a light and crude adaptation of CMM to thinking about the developmental trajectories of NRENs

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Level 1: Initial
Level 2: Repeatable
Level 3: Defined
Level 4: Managed
Level 5: Optimizing

Level 1: Chaotic
Level 2: Reactive
Level 3: Proactive
Level 4: Managed
Level 5: Optimised

Level 0: Nonexistent
Level 1: Chaotic
Level 2: Reactive
Level 3: Proactive
Level 4: Managed
Level 5: Optimised

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Level 0: No NREN, and no awareness of the need for one

Level 1: No NREN, but consciousness of the deficit

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Level 2: No NREN, but structured conversation

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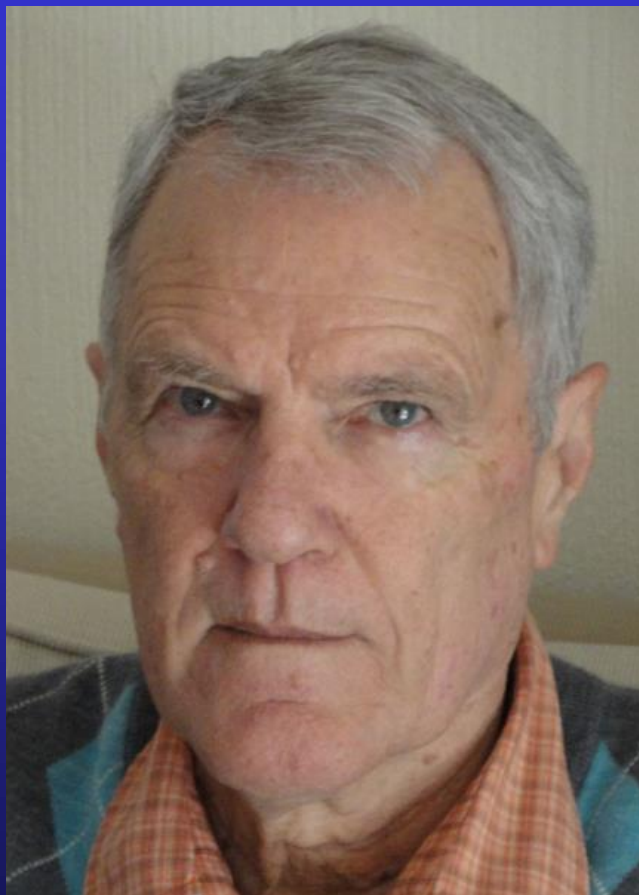www.eresearch.ac.za | conference@eresearch.ac.za

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Level 3: Establishment of commitment
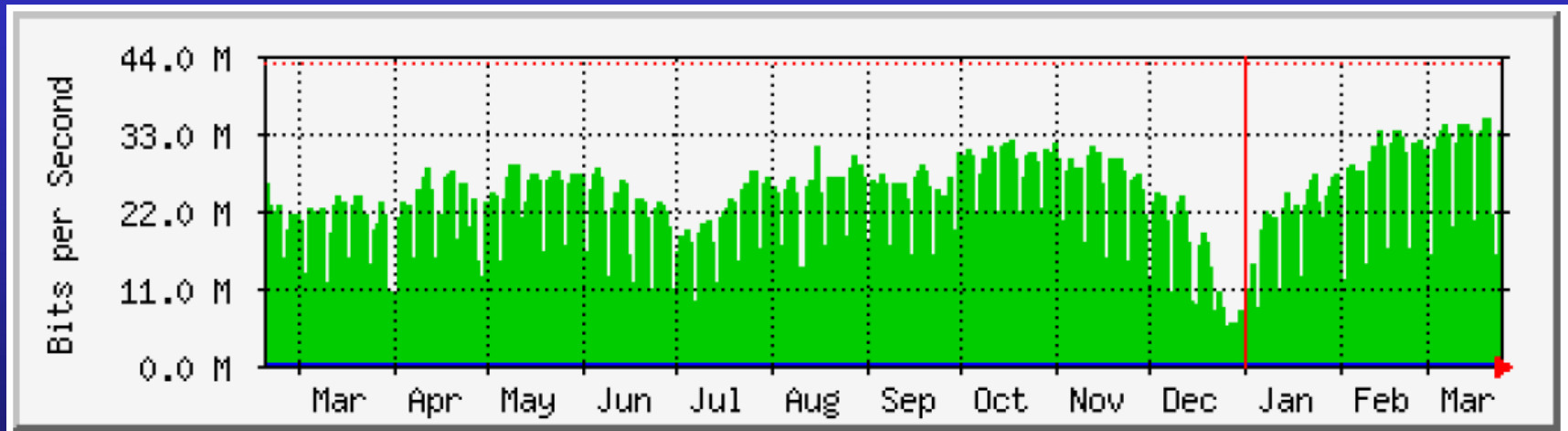
Level 4: Coherent service offering

Level 5: Regional or better connectivity

Level 6: Elaborated service offering

Summary of the application: South Africa arrived at Level 4 in the early 1990s, and became stuck there.

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Quarter	Bandwidth
2008 Q4	241
2009 Q3	254
2010 Q3	2020
2011 Q3	3100
2012 Q3	5000
2013 Q3	6500
2014 Q3	7500
2014 Q4	8900

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By mid-2010 South Africa's NREN has achieved level 5 maturity – regional connectivity or better.

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The shift of conversation from bandwidth to services makes the start of the transition to a mature NREN

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The current agenda:
- Federated Identity Management
- eduroam
- videoconferencing
- shared services
- OLEs

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