

Needs, Development and Operation of Global Research Infrastructures — Challenges and Drivers for Collaboration

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RI - Global Concerns Today

1. Which types of world-class infrastructures are best suited to a global approach - Including globally distributed infrastructures and national facilities of global interest.
2. How to tackle data, in particular how to address the distributed nature of either the facilities themselves or the user communities?



RI and Global Science

- How to increase the use of Research Infrastructure and how to support access to RI based on excellence?
- How to strengthen international cooperation in the implementation, governance and operation of research infrastructures?
- How to nurture synergies between research infrastructures from differing disciplines and how to promote interdisciplinary approach?

RI - Management

- **How to manage large international Research Infrastructures focused on global challenges?**
- **How to increase awareness of the education and training possibilities that Research Infrastructures offer?**

Can we Learn from INDIAN RI?

- Lessons to be learnt from existing infrastructures across different fields.
- Are there specific additional needs for managing those addressing global challenges? If so, in which areas? Are there common characteristics?
- The experience that existing global Research Infrastructures and other bodies can share.

RI, Global Science, and International Cooperation – Way Forward...

- How international cooperation for research infrastructures can be effective in the future?
 - Strengthening of existing initiatives,
 - Highlighting possible needs for additional effort
 - Developing a vision for an open science
 - Global ecosystem of research infrastructures
 - Actions needed to achieve it
 - Perhaps resulting in Horizon 2020...

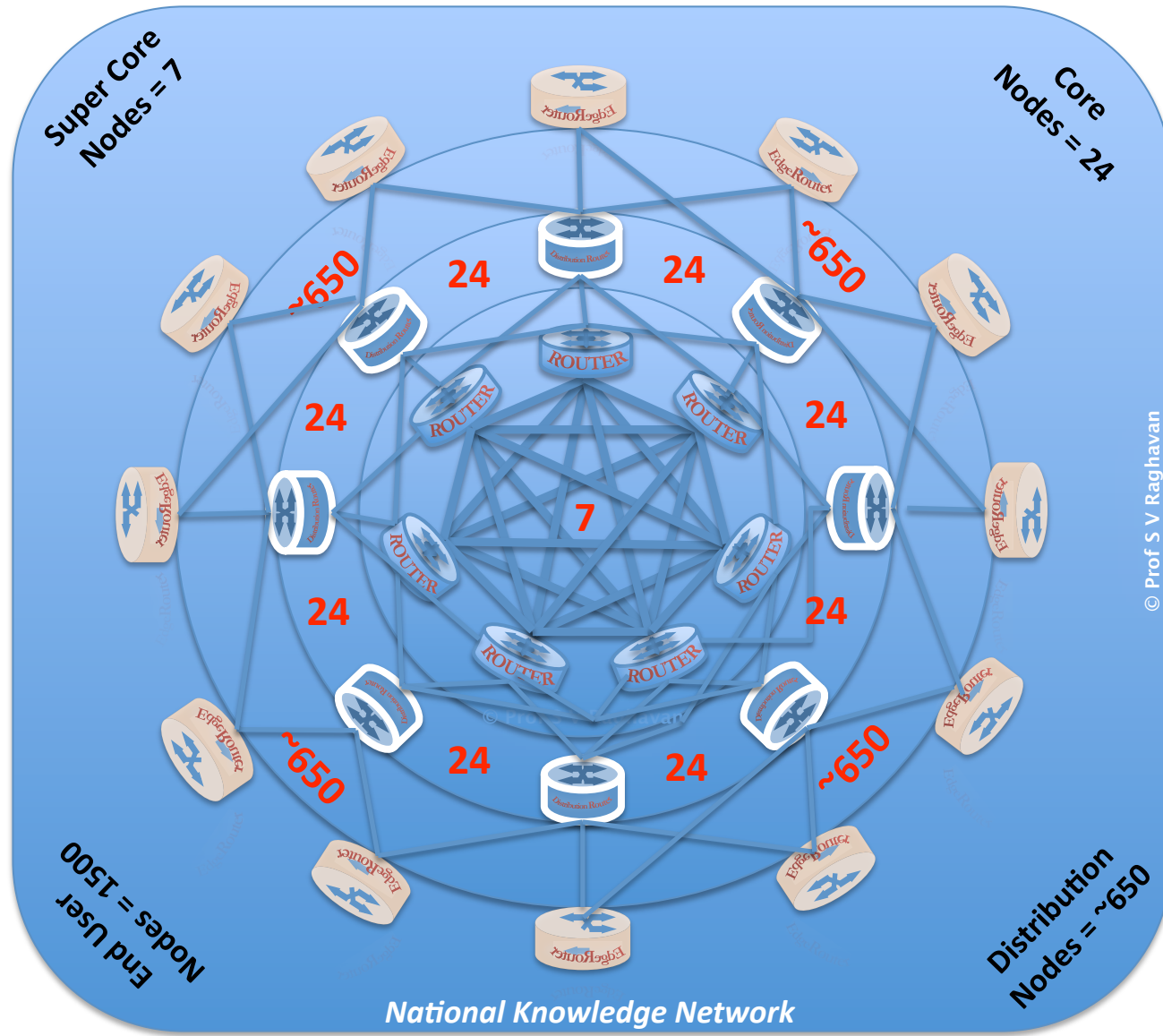
National Knowledge Network:

*Enabling a Paradigm Shift in Research Infrastructure
And
Global Science Cooperation*

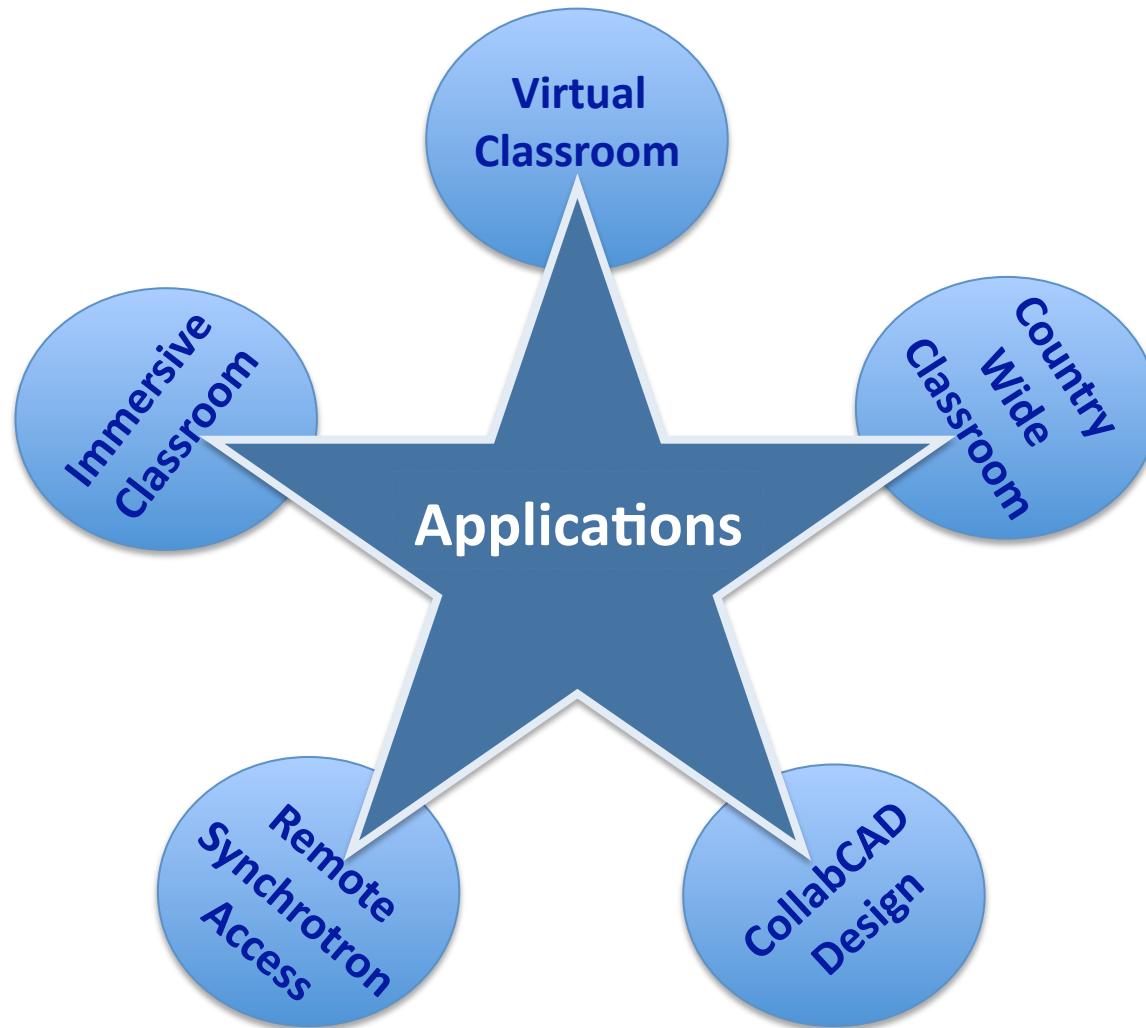
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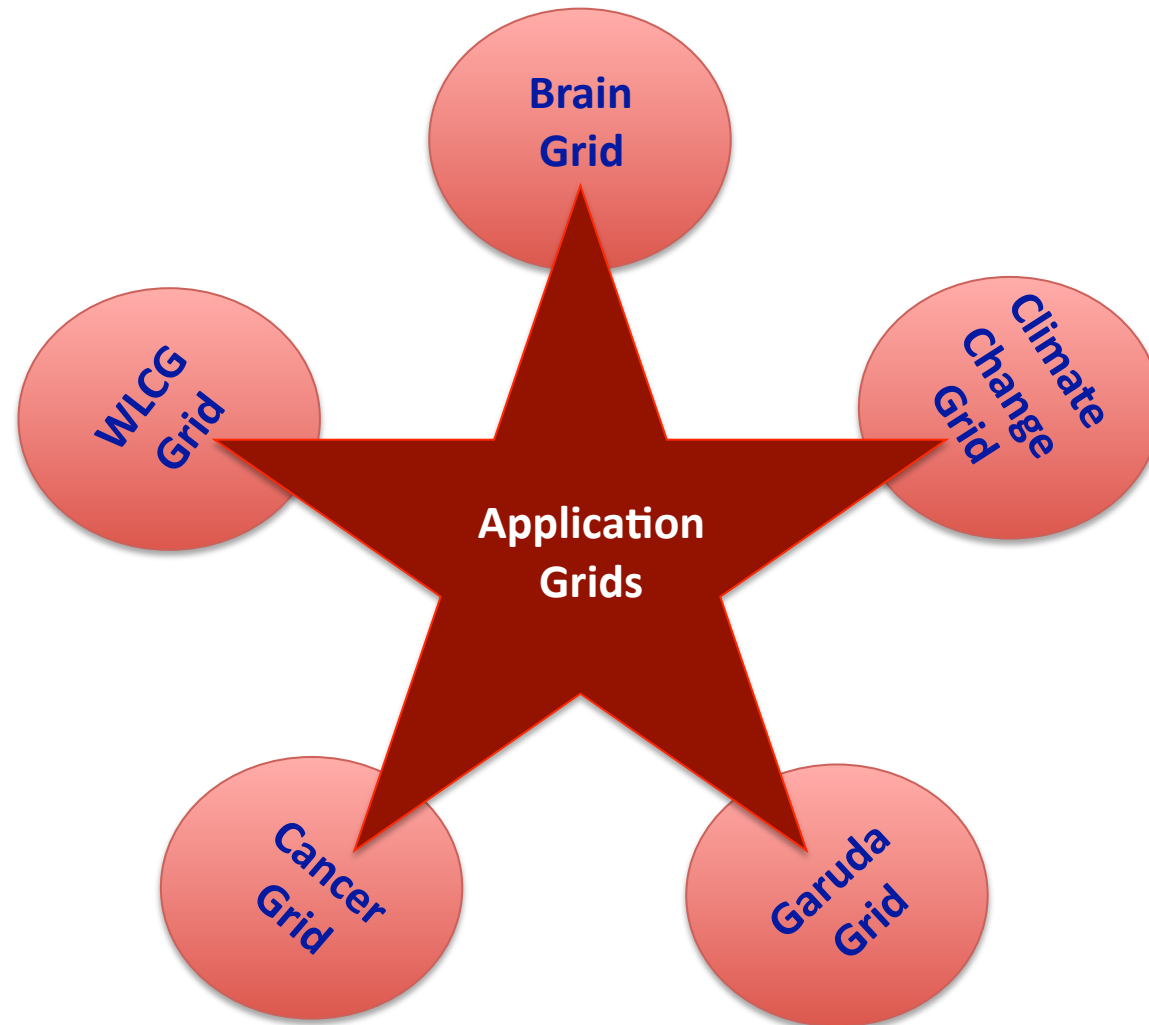
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Applications



Application Grids



Global Science Data Sharing Policy

Authentication Schemes and Access Controls

Data Base for Sharing – Schema, Format, Translations

Research VPNs and Grids

National Knowledge Network

**Thank
You**