

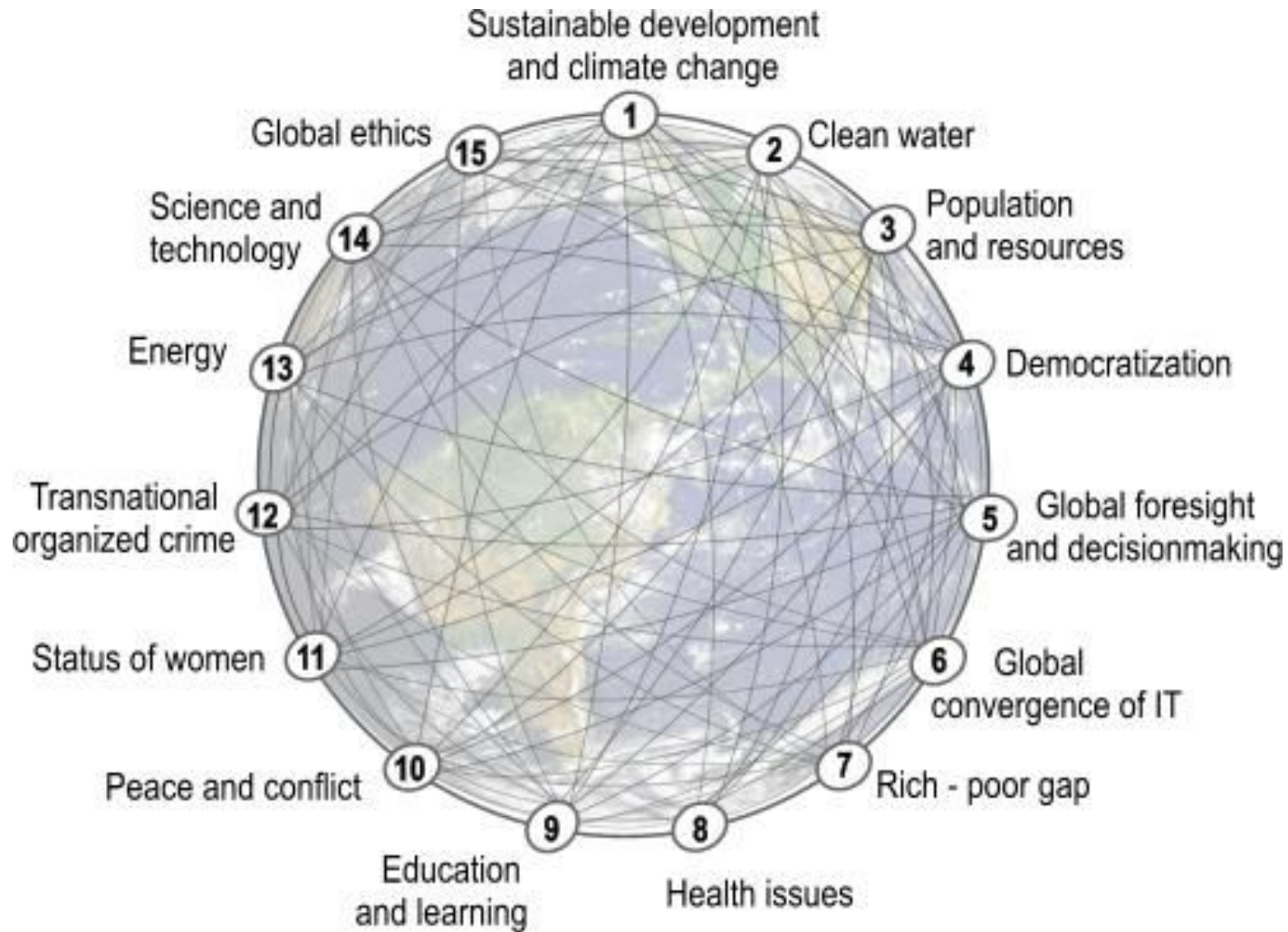


Introduction to Global Science Communities ... and lessons learnt

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Global Challenges



MAGIC WP5 – Global Science Communities

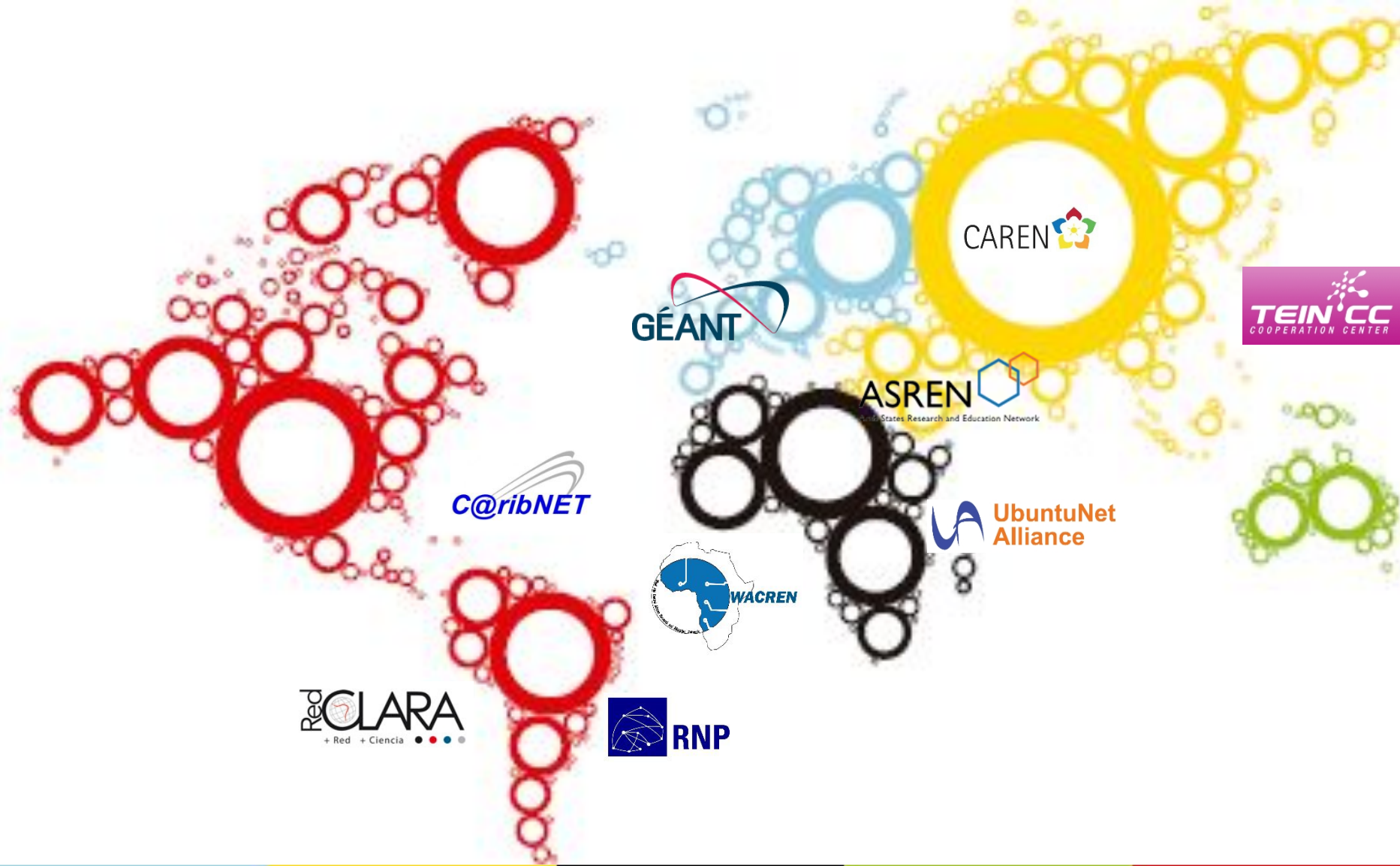


- Work Package 5 of the MAGIC Project
- Fostering the work of Science Communities,
 - Promoting the use of technologies
 - Sharing funding and partner opportunities
 - Promoting global collaboration in thematic areas
 - Promoting sharing of best practice and experience

Partners



World Wide Contact Points



Objectives



- To **invite/select three global research and scientific communities** with common topics of research and education interests which include researchers of the MAGIC participating regions to participate in **collaborative initiatives using advanced networks and services**.
- To **extend/update the Funding Opportunities Database and Partner Search application** developed by the ELCIRA Project to include information from other MAGIC developing regions and provide valuable funding information for the global communities and other research groups worldwide.
- To **foster the collaborative work** of Global Science Communities by **actively promoting the participation of researchers from all participating regions in European Commission Calls** and those of other international funding agencies with high impact in the participating regions and other networking activities.

Objectives

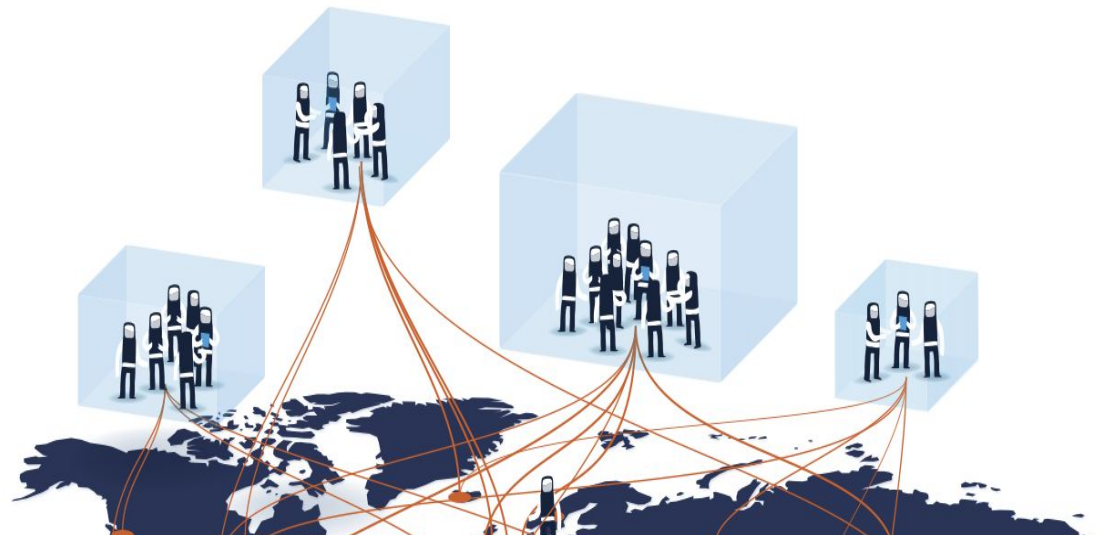


- To promote and foster the use of collaboration technologies among worldwide research communities, **encouraging the proper and active use of the collaborative platforms, services and tools**, by supporting them with training material and activities to learn how to use the tools.
- To **use these collaborative platforms** to spread knowledge and the practices of the Global Science Communities by sharing information and experiences among experts in the priority fields identified, seeking to raise awareness of prevailing issues to wider audiences including policy makers, and also, to **foster and improve collaboration among researchers of the MAGIC regions**.

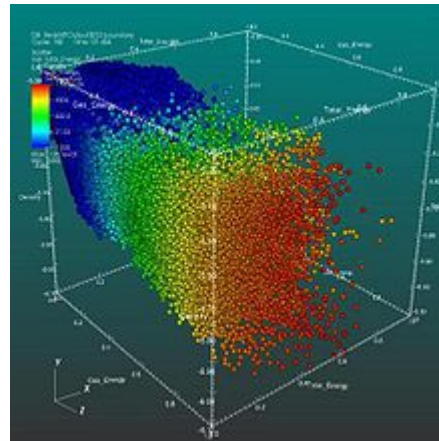
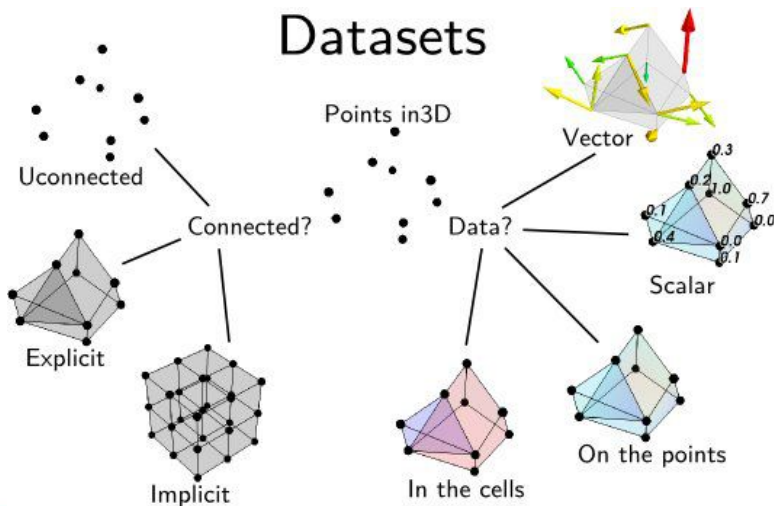
Research: Where we are today



- Problems we face today are regional, global in nature
- Expertise is spread across the regions, the world
- Still..., problems can no longer be addressed by one discipline... you need expertise from different disciplines
- ...research is increasingly being conducted by multi-disciplinary teams with people from different geographical locations



- Internet and advances in distributed computing systems give us the opportunity to do things differently and effectively in our quest for knowledge
- Research groups have data sets, instruments, analysis and virtualisation tools, HPC, etc... all requiring remote access



- Over the years the research and education networking community has developed tools that enable collaboration



Foodle



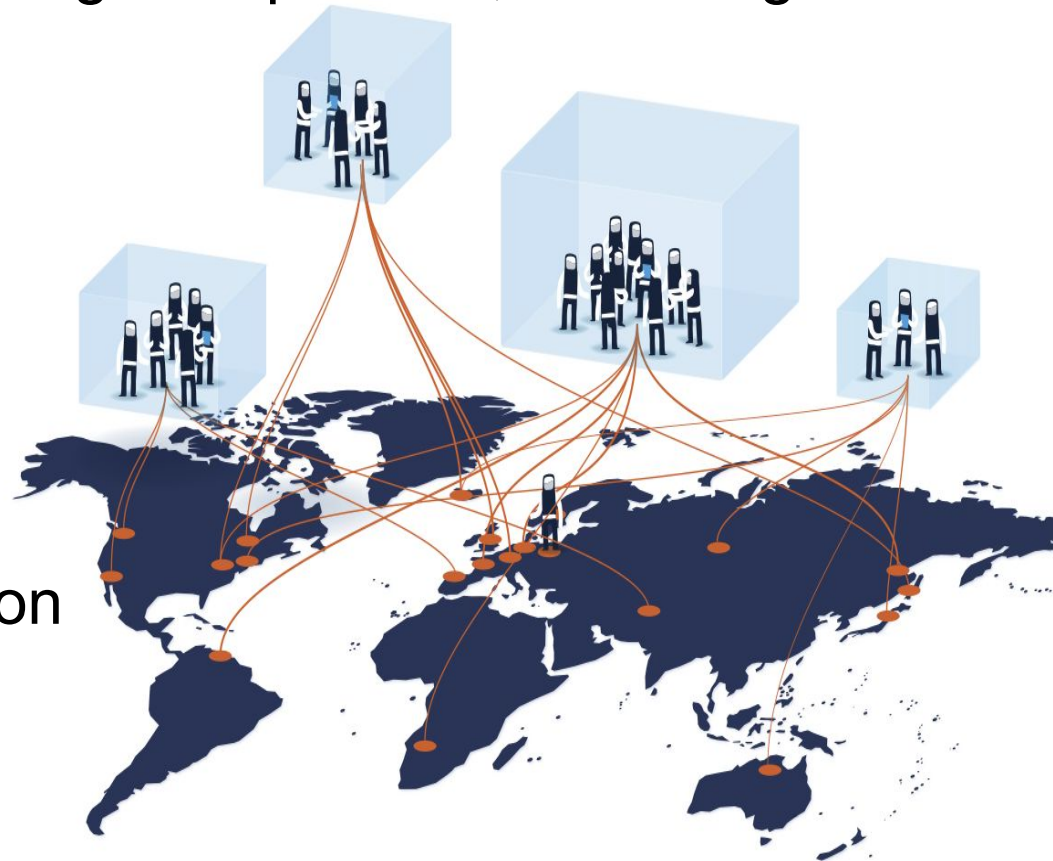
COLABORATORIO



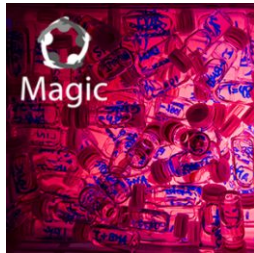
Global Science Communities



- A group of experts (researchers and/or academics) from different parts of the world with a common interest, working together on activities, sharing best practice, knowledge and experiences.
- We have 4 Communities
 - E-Health
 - Biodiversity
 - Environment
 - Remote Instrumentation (Shared Laboratories)
- Each GSC has a Champion



Four Global Science Communities (GSC)



E-Health

Members: 58+

Thematic Leader: Luiz Ary Messina,
National Coordinator of Rute (Rede Universitária de Telemedicina), Brazil.



Biodiversity

Members: 31+

Thematic Leader: José Ramón Martínez
Professor and researcher of the Universidad Autónoma de Santo Domingo (UASD), Dominican Republic.



Environment

Members: 28+

Thematic Leader: David C. Smith,
Coordinator Institute for Sustainable Development, The UWI, University of the West Indies, Jamaica.



Remote Instrumentation

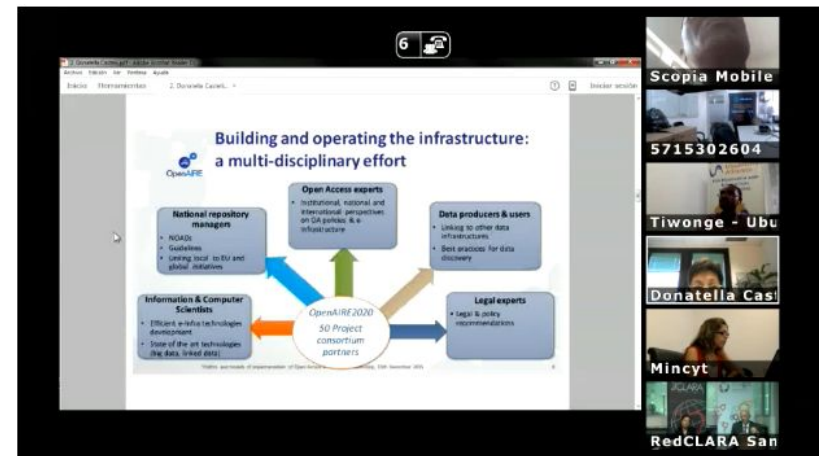
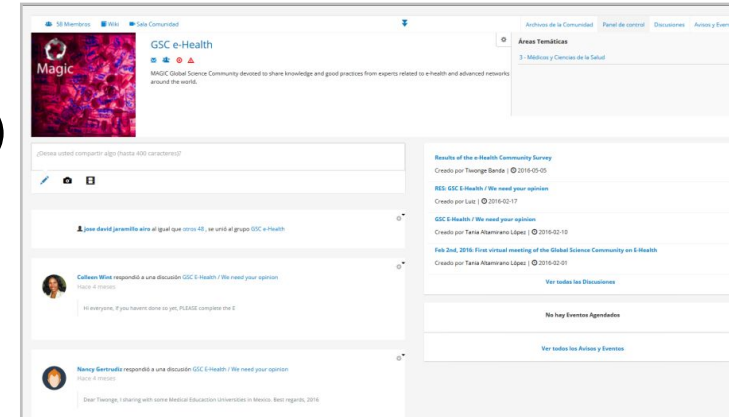
Members: 16+

Thematic Leader: Patricia Santiago,
Associate Professor Physics Institute, Universidad Autónoma de México (UNAM), Mexico.

How GSCs Work



- Virtual, Colaboratorio
 - Communities (Spaces on Colaboratorio)
 - Email, Web conference
- Virtual Events
 - Discuss issues of common interest
 - Share information on opportunities
- Regional thematic Events
 - Co-located with major events



Lessons from MAGIC



- Research problems better addressed by multi-disciplinary teams from different parts of the world
- GSCs are vital in removing isolation of researchers / scientists
- Sustainability requires some anchor (that keeps them together)
- Need to be supported at institutional level with a highly skilled IT team



Magic

Middleware for collaborative Applications
and Global virtual Communities

magic-project.eu

Thank you!

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