

Synergy for Global Collaboration in Science  
powered by R&E networks

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TANDEM - Strengthening the WACREN Community  
and Promoting Global Research Collaboration

Damien ALLINE

IRD (Institut de Recherche pour le Développement)  
France



Institut de recherche  
pour le développement

- TANDEM  
(*TransAfrican Network Development*)
- EU funded project May 2015-May 2017
- <http://www.wacren-tandem.eu>
- Consortium
  - End Users (Univ/Research organisms)
    - IRD (coordinator); CIRAD; BRUNEL Univ
  - NRENs/RRENs
    - WACREN; UBUNTUNET ALLIANCE; RENATER; CLARA; GEANT; SIGMA-ORIONIS

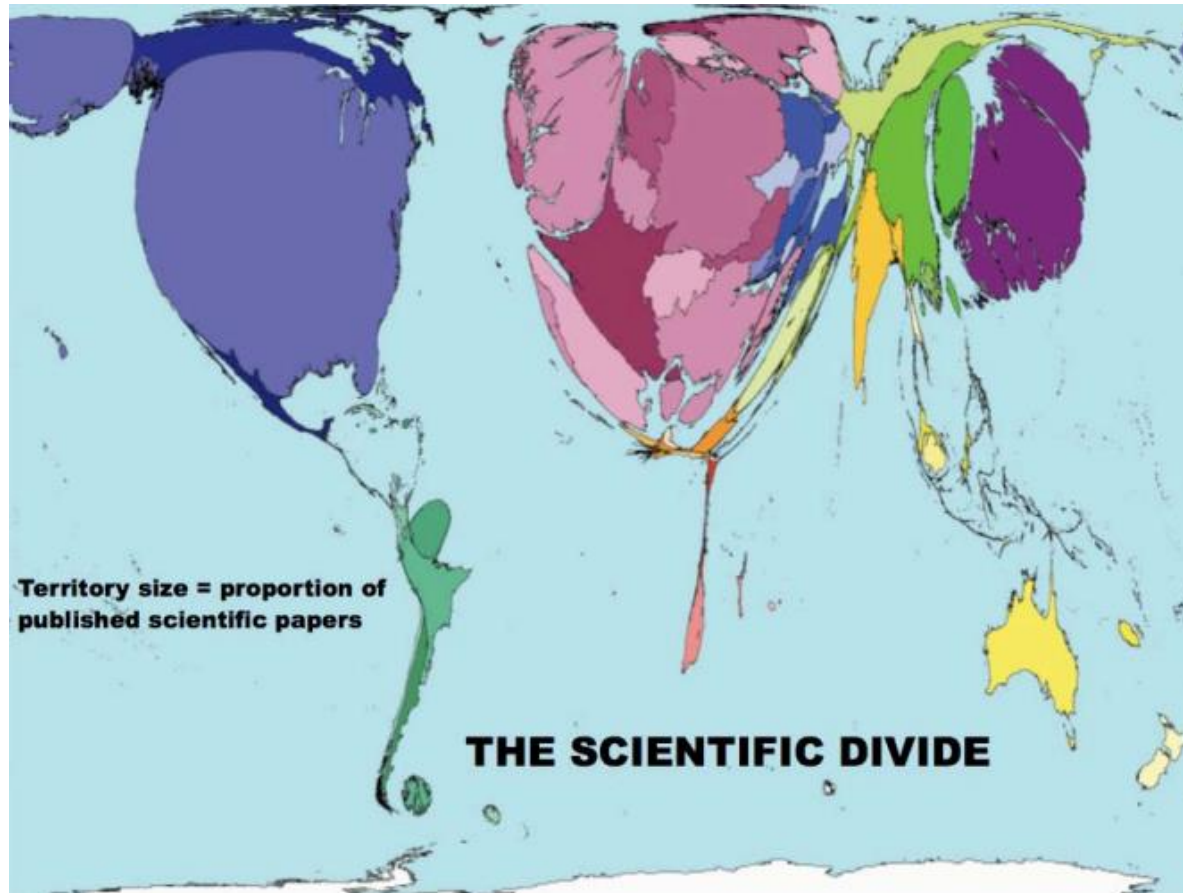


Important digital divide...



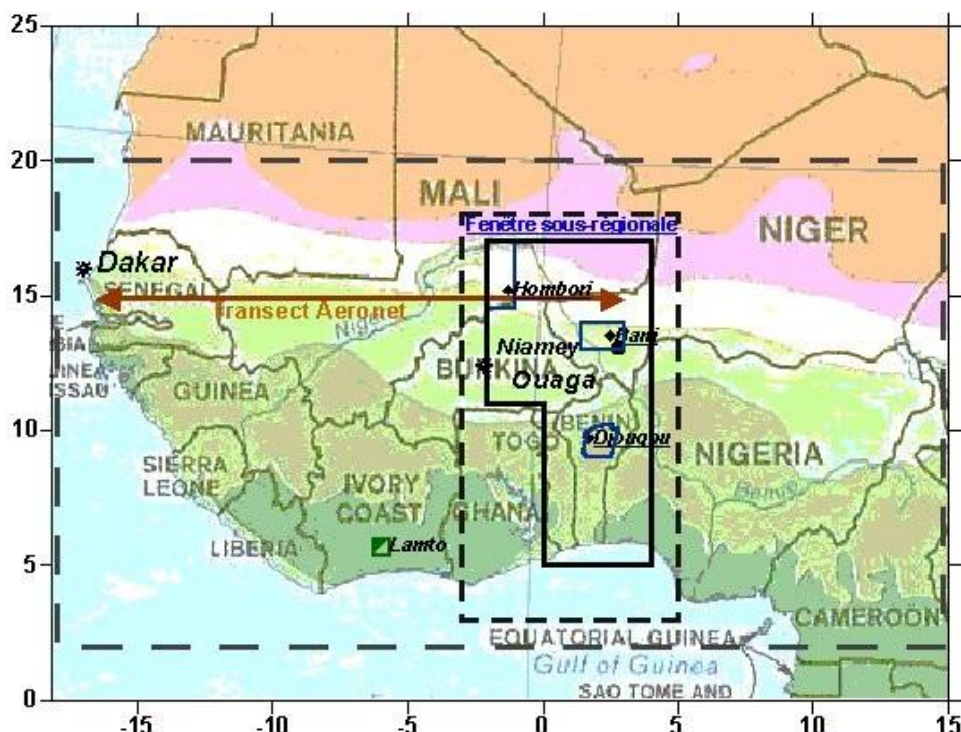
Source: UIT (union internationale des télécommunications)

... which contributes to a scientific divide

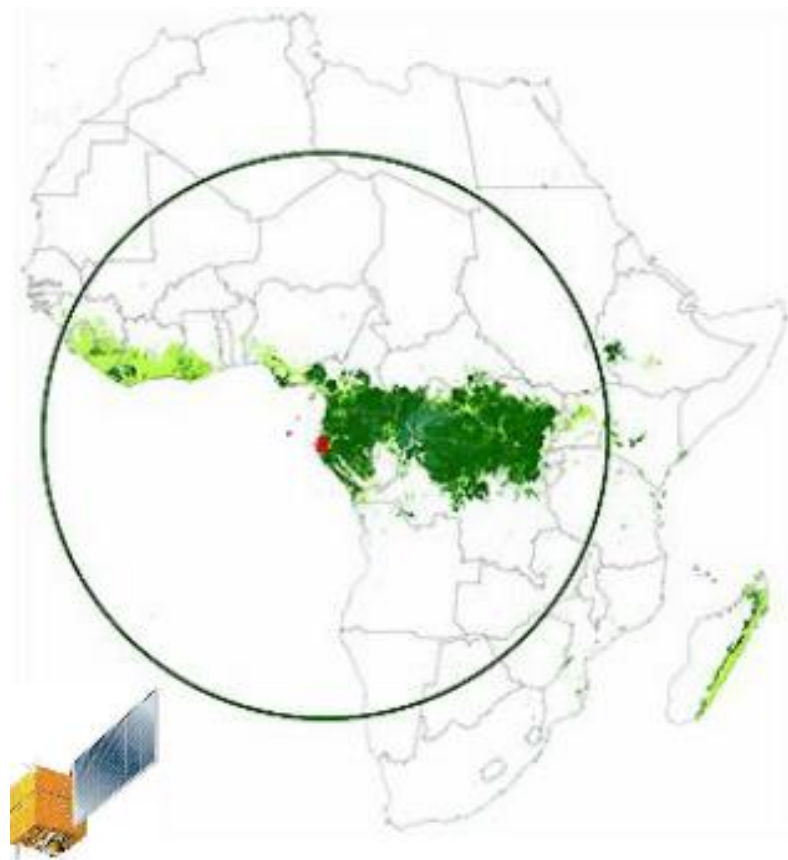


Source: "Science et Société" Lausanne 22-23 mars 2009 Robert Klapisch

Demand is high for good bandwidth, exchanging resources  
 Key research subjects (environment, food security, health)

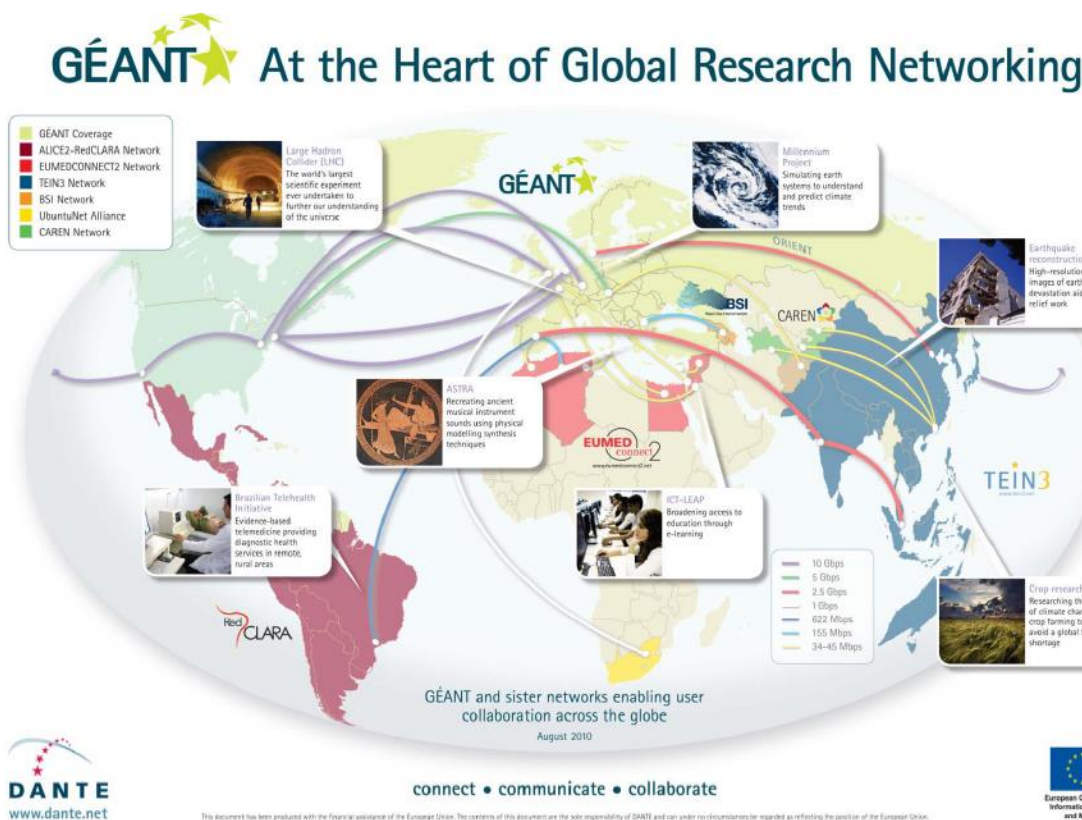


- : zone d'étude AMMA    \* Ouaga: station AERONET hors super-sites
- : fenêtre sous-régionale AMMA-CATCH    ■ Lamto: super-site végétation
- : sites de méso-échelle AMMA-CATCH    ◆ Bani: super-sites

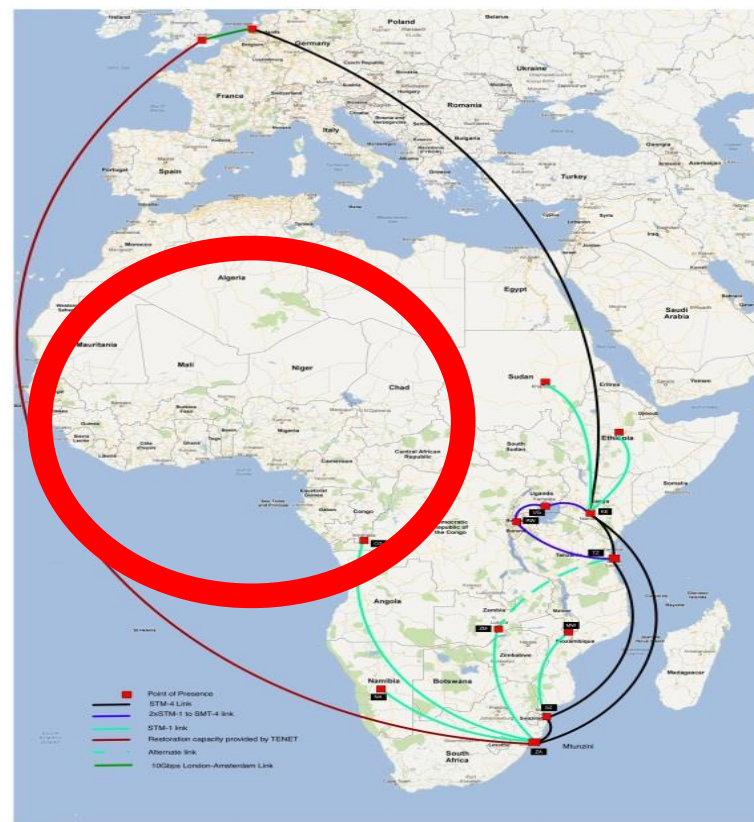


## Interconnexion RRENs for a global collaboration

- **Europe (GEANT)**  
*created in 2000*
- **South Am. (RedClara)**  
*created in 2003*
- **Asia (TEIN)**  
*created in 2004*
- **North Af.(EumedConnect)**  
*created in 2004*
- **South&East Af.(Ub. Alliance)**  
*created in 2005*
- **West&Central Af. (WACREN)**  
*created in 2010*



Create the favourable conditions for WACREN to deploy e-infrastructures answering End User's (students, teachers, researchers) needs taking into account **policy**, **financial**, **regulatory** and **technical** constraints

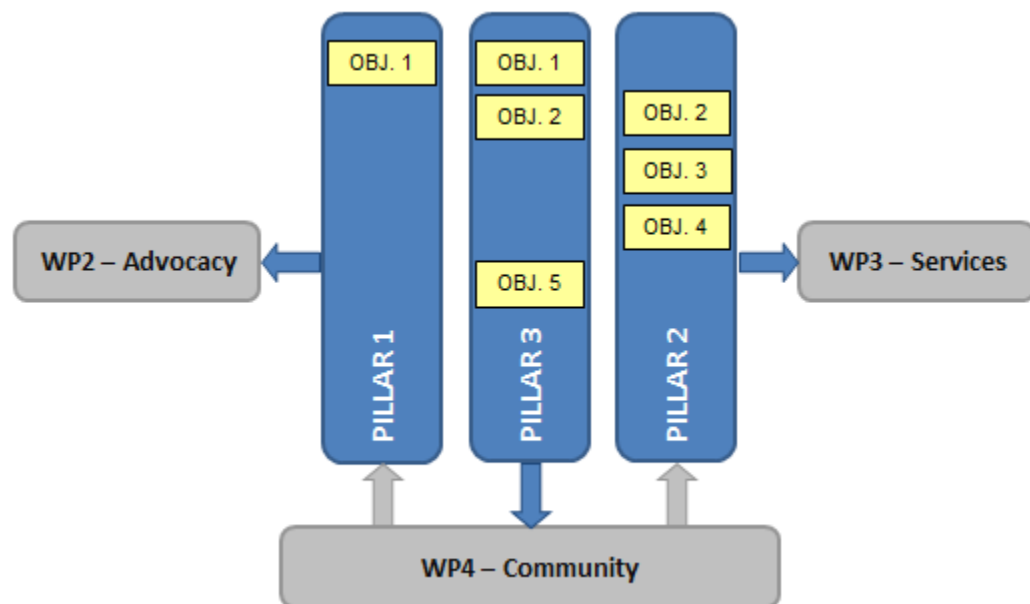


Africa Connect project

1. Obtain political and financial support to WACREN for the network implementation in view of the AfricaConnect extension
2. Raise End User's awareness
3. Gather End User requirements
4. Identify technical recommendations
5. Establish a NREN community– Develop and strengthen the NRENs

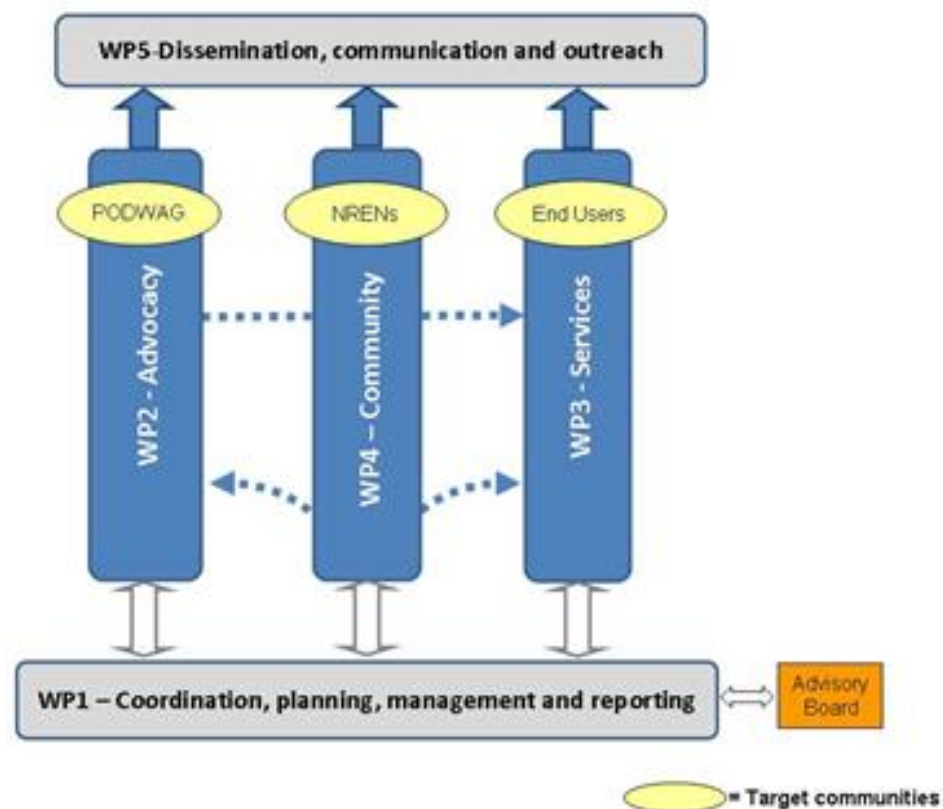


- Pillar 1. Enhance the dialogue between WACREN and **policy makers**, international **donors**, regulatory authorities and telecom operators
- Pillar 2. Enhance the dialogue between WACREN, **End Users**, **NRENs** and research and tertiary education institutes
- Pillar 3. Contribute to build a permanent stakeholder dialogue by “incubating” communities



## Three target communities

- **Policy Makers and Donors**
  - WP2: awareness; recommendations; funding
  - WP4: incubate the community
  
- **End Users**
  - WP3: awareness; collect needs; WACREN H2020 roadmap
  - WP4: incubate the community
  
- **NRENs**
  - WP4: strengthen NRENs (managers, focal points); incubate the community



- Increased awareness
- Mobilised additional resources / funding
- Established communities
- Strengthened NRENs
- Elaborated WACREN H2020 implementation roadmap of a portfolio of services meeting the End Users needs
- Increased North-South dialogue

- 2010: WACREN created
- 2010-2015: Interconnection of Ubutunet Alliance to the global research network (Africa Connect)
- 2015-2017: TANDEM, MAGIC, SciGaIA...
- 2015-2020: Implentation of the WACREN H2020 roadmap
- WACREN connected to the global research network

- THANK YOU FOR YOUR ATTENTION

- ANNEXES

