



# TRANS**AFRICAN** NETWORK DEVELOPMENT

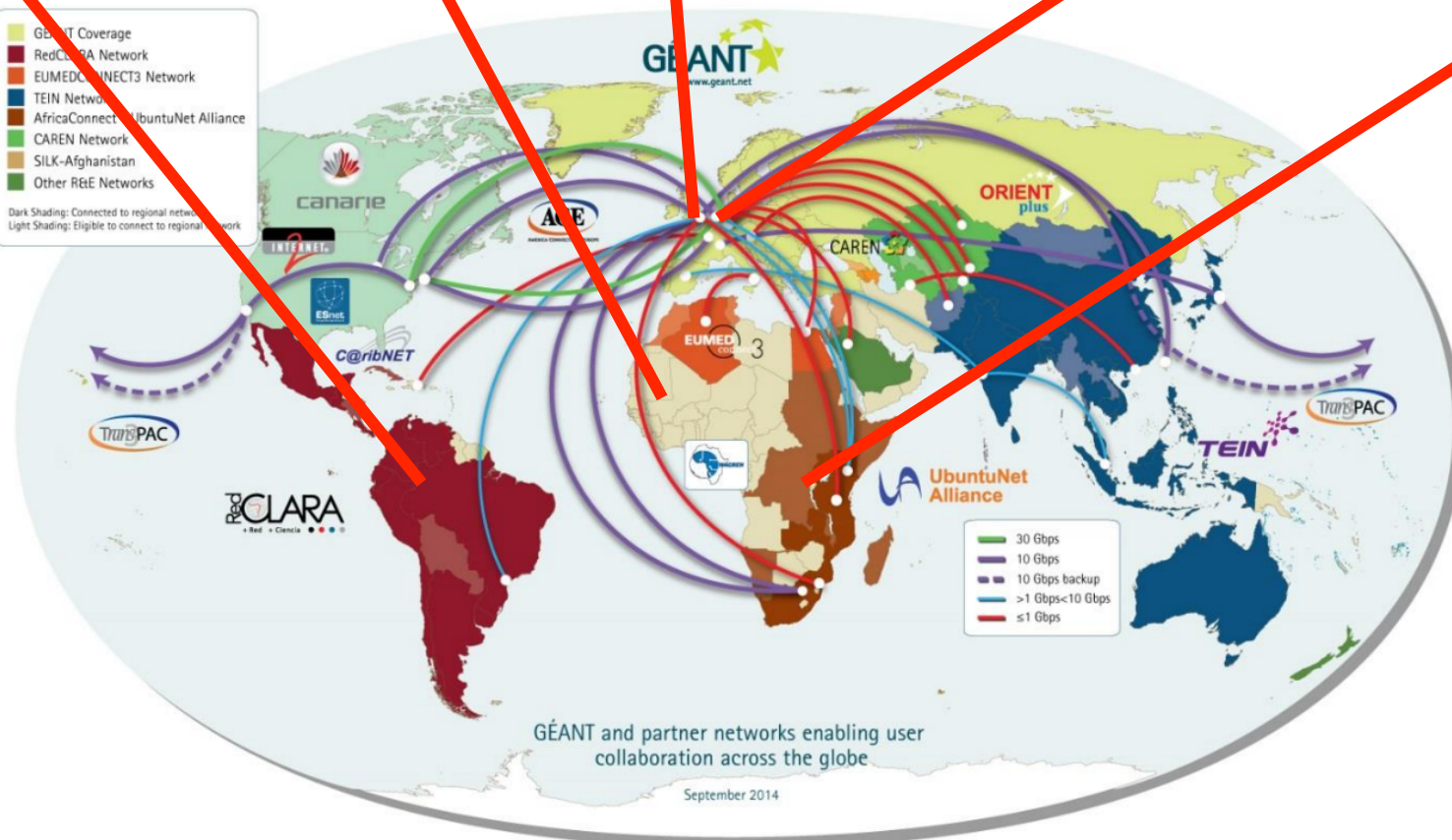


06/11/2015 – Presentation of TANDEM – Damien ALLINE (IRD)  
NREN National Workshop, Accra, Ghana



# FACTSHEET

Acronym	TANDEM
Full title	TransAfrican Network Development
Grant Agreement	654206
Funding scheme	Coordination and Support Action (CSA)
Funding scheme	H2020
Start date	01/05/2015
End date	30/04/2017
Duration	24 months
Project funding	€ 1,217,982.50 (grant amount)
Call identify	H2020-INFRA supp-2014-2
Topic	e-Infrastructure policy development and international cooperation



GÉANT and partner networks enabling user collaboration across the globe

September 2014



connect • communicate • collaborate  
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TANDEM Project Coordinator – M. Damien ALLINE

The IRD (France) is a French research organisation that, together with its southern partners, addresses international development issues.



GEANT Limited (UK) is the pan-European research and education network that interconnects Europe's National Research and Education Networks. Together they connect over 50 million users at 10,000 institutions across Europe.



WACREN (Ghana) is the West and Central African Research and Education Network, with the vision to make available world-class infrastructure and services for the West and Central African research and education community

Brunel University London (UK) is ranked among the top of UK's higher education and research institutions. Brunel hosts a very dynamic Department of Computer Sciences, which is the largest research group of its type in the country.



RENATER (France) is the French Research and Education Networks providing to its community a wide portfolio of network and applicative services. Since 2011 RENATER is involved in the development of NRENs in Central and West Africa.



UbuntuNet Alliance (Malawi) is the Eastern and Southern Africa Research and Education Network aiming at securing affordable broadband and efficient ICT access and usage for African NRENs and their associated communities of practice.

Sigma Orionis (France) is located in Sophia Antipolis and provides research and studies connecting research to innovation and markets. The company has developed an expertise in ICT and international cooperation.



CIRAD (France) is an agricultural research and international cooperation organization working for the sustainable development of tropical and Mediterranean regions. CIRAD has strong relationships with African scientific communities.



RedCLARA (Uruguay), Cooperación Latino Americana de Redes Avanzadas (Latin American Cooperation of Advanced Networks) is a consortium of the National Research and Education Networks of the Latin American region.



# WHAT IS **TANDEM**?

**TANDEM** aims at supporting the **dialogue between the EU and National Research and Educational Networks (NRENs)** from Africa with special attention to **Western and Central Africa.**



# Pan-african Research programs

## Demand is high in WACREN area for NREN connectivity and services

### Key research subjects (environment, food security, health)

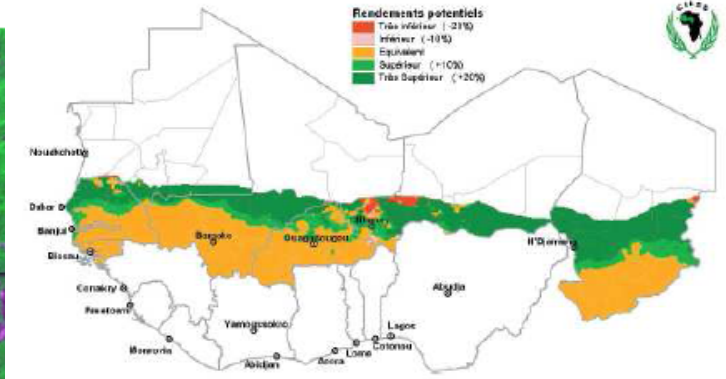
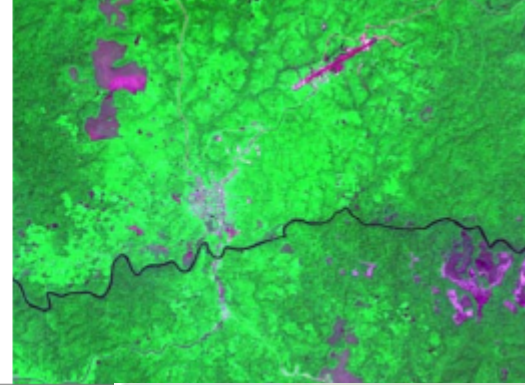
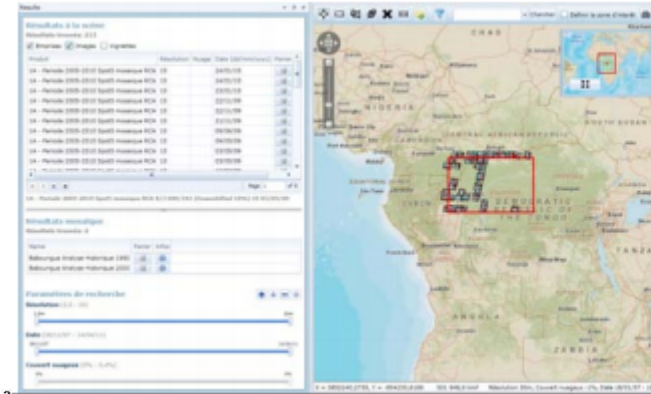


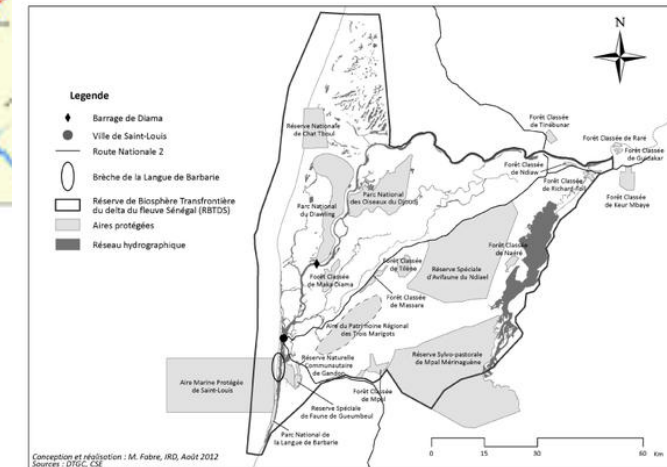
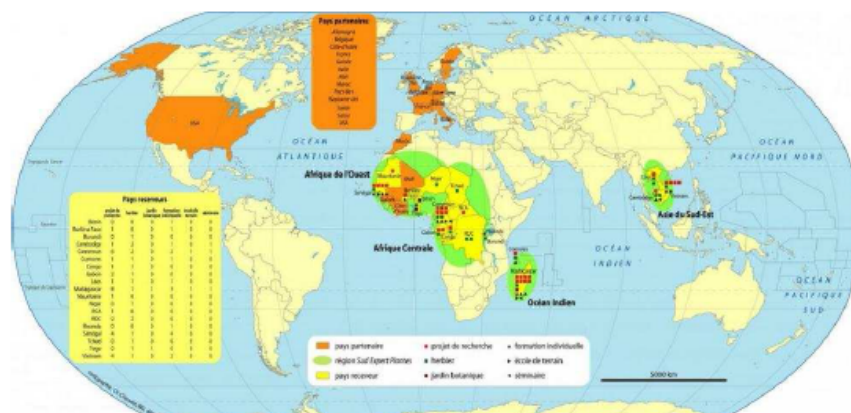
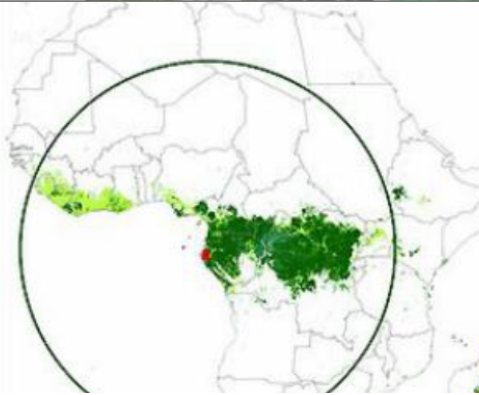
Fig3.4 : Rendements potentiels de mil dans les pays du CILSS pour la saison des pluies 2012



zone d'étude AMMA \* Ouagadougou : station AERON

fenêtre sous-régionale AMMA-CATCH

sites de méso-échelle AMMA-CATCH



Conception et réalisation : M. Fabre, IRD, Août 2002  
 Sources : DFCI, CSE

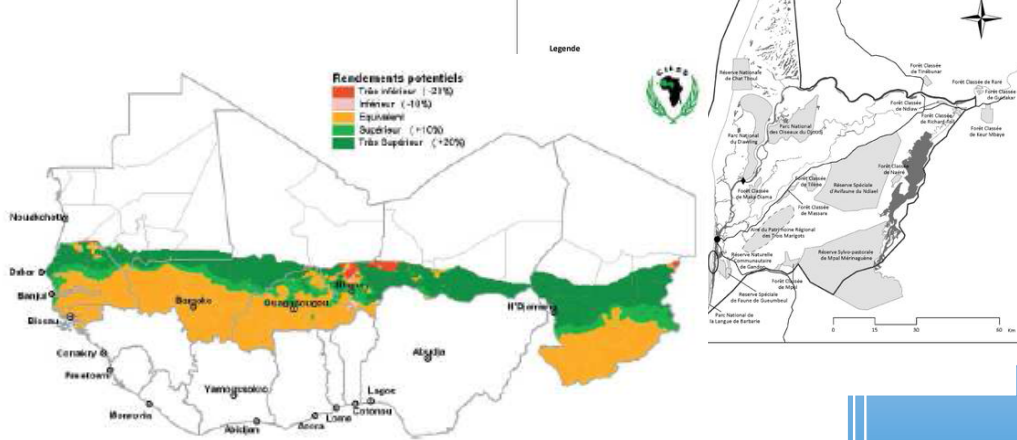
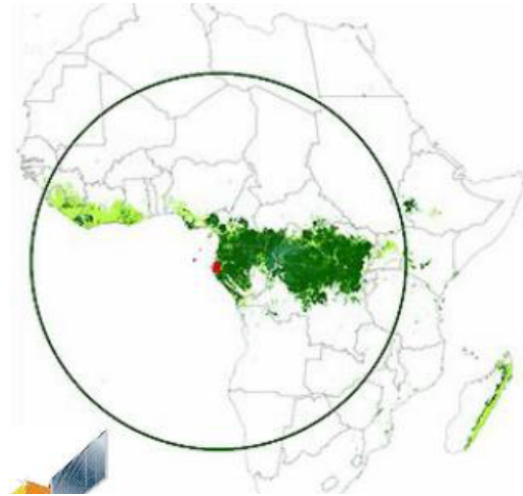


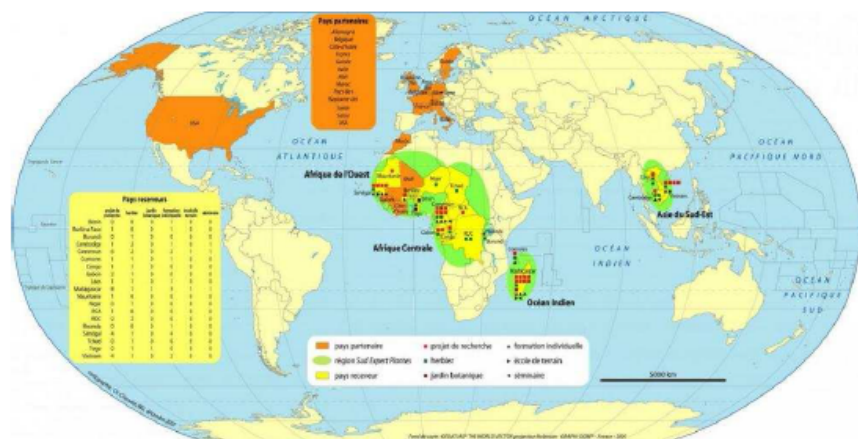
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Need of NREN/RREN WACREN  
for an **interconnexion between the sites to access scientific databases**



Need of NREN/RREN WACREN (with **high bandwidth**)  
in order to exchange heavy satellite data within the region  
(Congo Basin)



Need of NREN/RREN WACREN  
for an interconnexion (physical layer)  
and **interoperability (logical layer)** of the « GBIF » nodes  
*Global Biodiversity Information System*



# TANDEM PILLARS

## → ADVOCACY

Enhance the dialogue between WACREN, policy makers, international donors and regulating authorities: promote connectivity and obtain political and financial support

- 3 National awareness and dialogue workshops
- 1 Regional high-level workshop

## → SERVICES

Enhance the dialogue between WACREN, end users, NRENs and research and tertiary education institutes: identify the global e-Infrastructure services needed

- Elaborate a roadmap for the future implementation of key NREN services

## → COMMUNITY

Build a permanent stakeholder dialogue

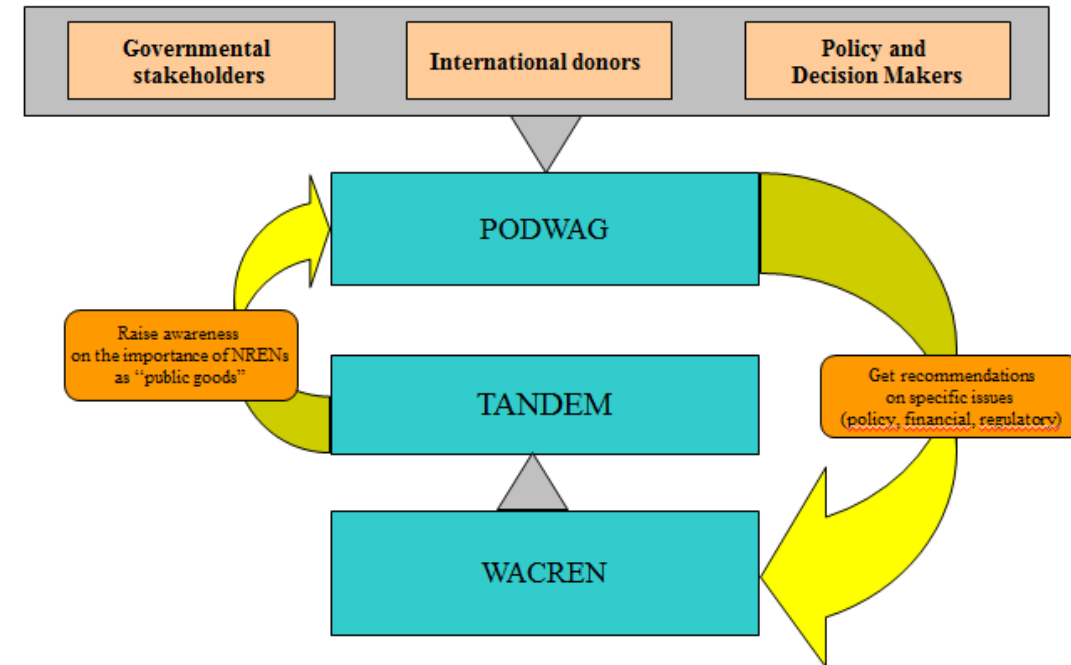
- Set up a virtual collaboration platform to "incubate" communities
- Organise community workshops





## → ADVOCACY

- Raise awareness (Decision makers, End Users)
  - 3 national workshops and 1 regional workshop
  - 3 PODWAG meetings
  - Dissemination materials  
(available on [tandem-wacren.eu](http://tandem-wacren.eu))
  - A community of NREN focal points



- **Collect the needs** of the End Users (students, researchers, teachers)
  - SURVEY on-line
  - NREN focal points community
- Elaborate a **WACREN H2020 roadmap** for implementing the expected service portfolio



## SURVEY

The TANDEM National Research and Education  
Network Survey

to gather End User requirements and establish the  
need for National Research and Education Networks  
and Services

[Take the online survey](#)

[More about the survey](#)

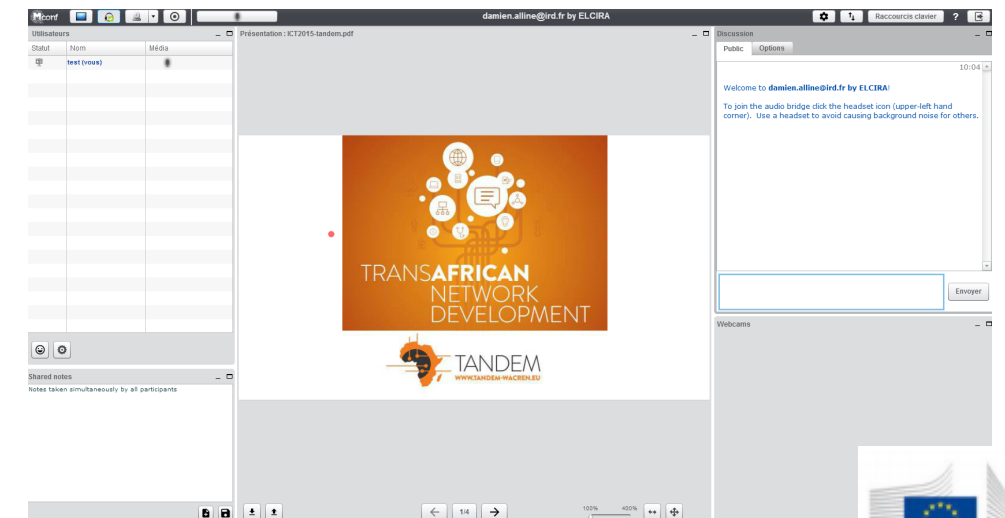
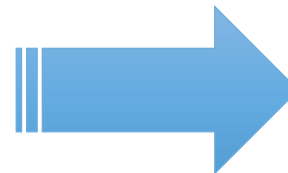
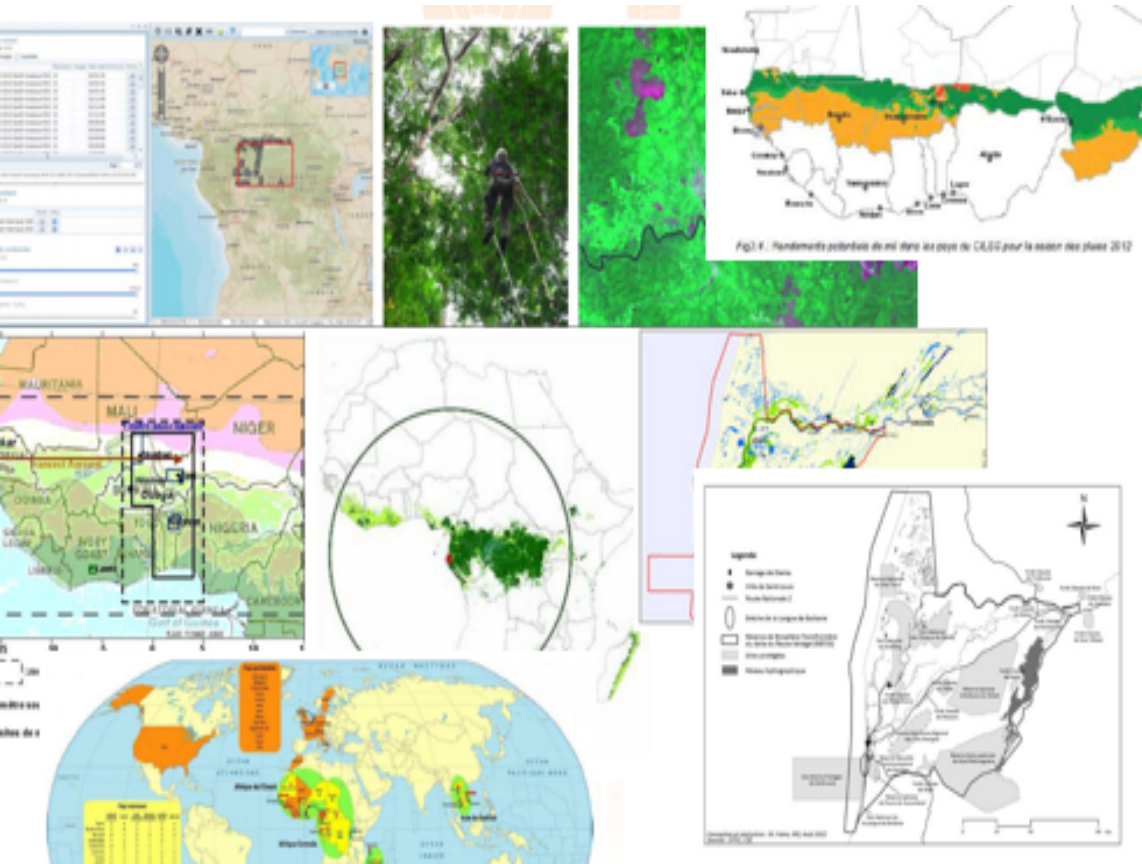


## → COMMUNITY

Build a permanent stakeholder dialogue

- Set up a virtual collaboration platform to “incubate” communities
- Organise community workshops

<http://community.wacren.net/>  
(wiki, visioconference, document sharing...)

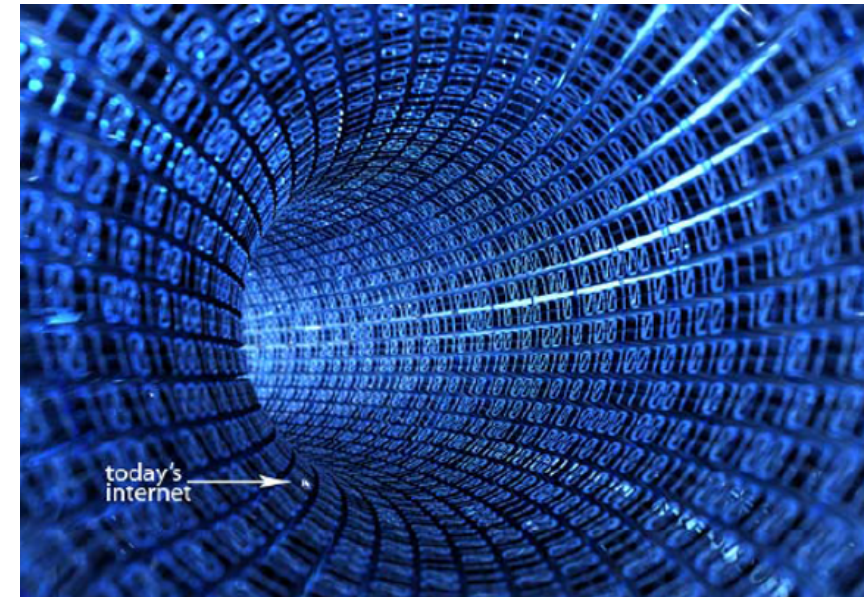




# TANDEM

## Conclusion – Impacts

- Objectives of TANDEM project will be met if:
  - A set of recommendations is produced (PODWAG)
  - Funds have been raised (af connect2, H2020 roadmap)
  - A WACREN H2020 roadmap is elaborated (survey!)
  - Communities are active on [community.wacren.net](http://community.wacren.net)
- Domino effect on NRENs







[www.tandem-wacren.eu](http://www.tandem-wacren.eu)

[info@tandem-wacren.eu](mailto:info@tandem-wacren.eu)

STAY **TUNED!**



@ei4africa | #TandemWacren



e-Infrastructures for Africa Community



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