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QFREN Update  
September, 2013



AGILITY | QUALITY | VALUE

# Agenda



- ▶ QFREN Overview
- ▶ MEEZA Overview
- ▶ Infrastructure Update
- ▶ QFREN Global Connectivity Challenges and Requirements
- ▶ Next Steps



# Qatar Foundation Research and Education Network (QFREN)

A High-Speed Optical Network dedicated to supporting the needs of Qatar Foundation Research and Education community.

Supports Qatar Foundation Mission to develop Qatar as a leader in innovative Education and Research.

Provides QF entities with the platform to collaborate and exchange information for the purpose of R&E, amongst each other, regionally, or globally with other entities that are part of other global Research and Educational Networks (RENs).

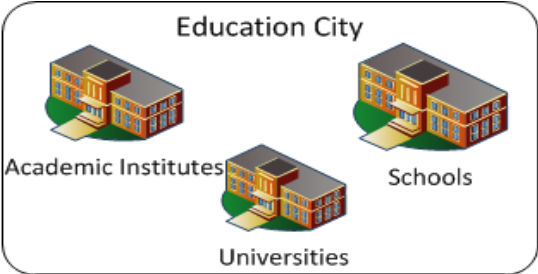


# MEEZA Overview

- ▶ Qatar Foundation Joint Venture
- ▶ Our role towards QFREN:
  - Overseeing QFREN Infrastructure Readiness
  - Monitoring and Managing QFREN Infrastructure
  - Deploying QFREN Services
  - Managing QFREN Contracts and Relations
  - Executing on QFREN Advisory Board decisions

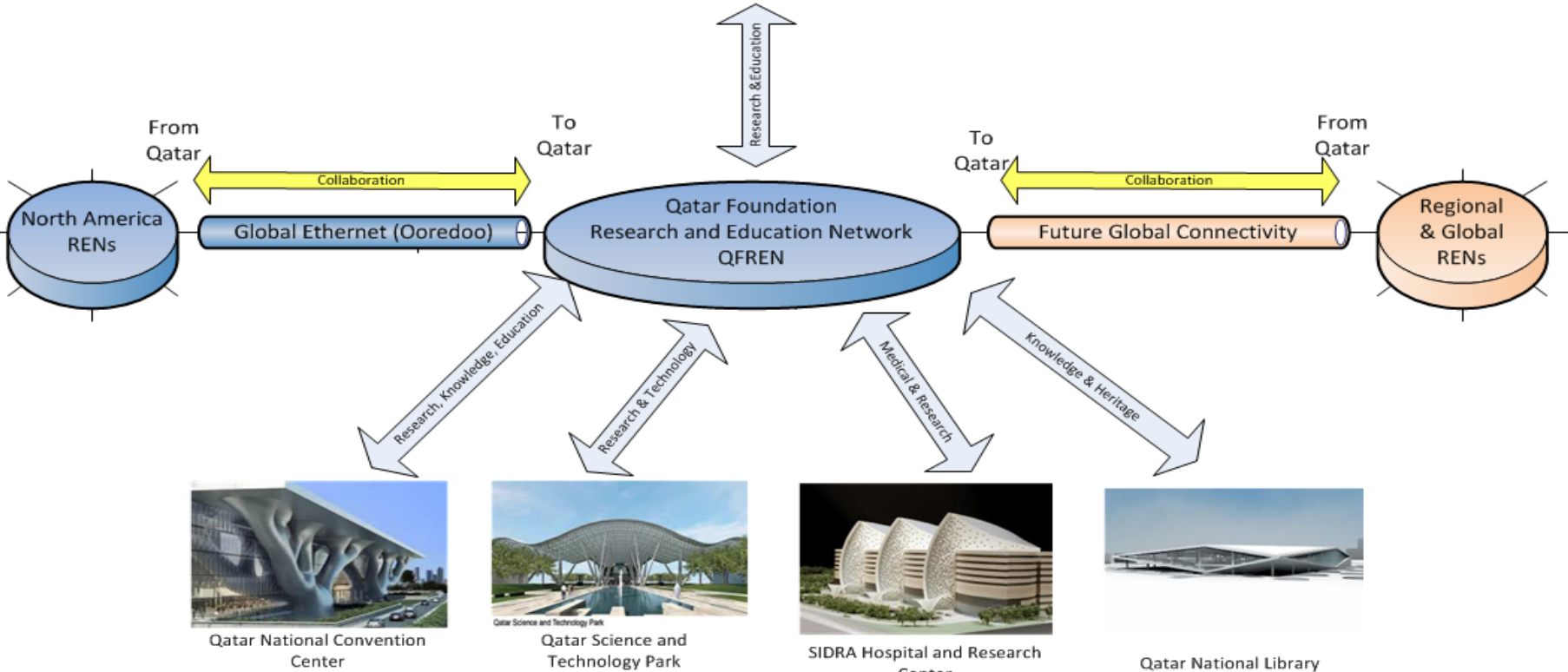


# QFREN Infrastructure Overview



**Key Points:**

- **2 Core Rings (Primary and Secondary)**
- **Six Zones (2 hubs in each zone for redundancy)**
- **10 Gbps Network Capacity scalable to 100 Gbps**



# QFREN Infrastructure Update



## Criteria

- 2 Core Rings formation (Primary and Secondary)**
- Six Zone (2 Hub Rooms per zone) Ready For Use**
- Fiber packages to End Users buildings**
- Brown field cables protected**

## Progress:

- 2 Core Rings formation (Primary and Secondary)**
  - ✓ Core Rings formation completed and tested
- Six Zone (2 Hub Rooms per zone) Ready For Use**
  - ✓ Three Zones are completed
  - ✓ Two Zone are in progress – Expected completion November 2013
  - ✓ One Zone will be ready 2014 – No impact
- Fiber packages to End Users buildings**
  - All QF research and education entities are supplied with connections to the nearest Zone.
- Brown field cables protected**
  - ✓ All cables protected through the utility tunnels



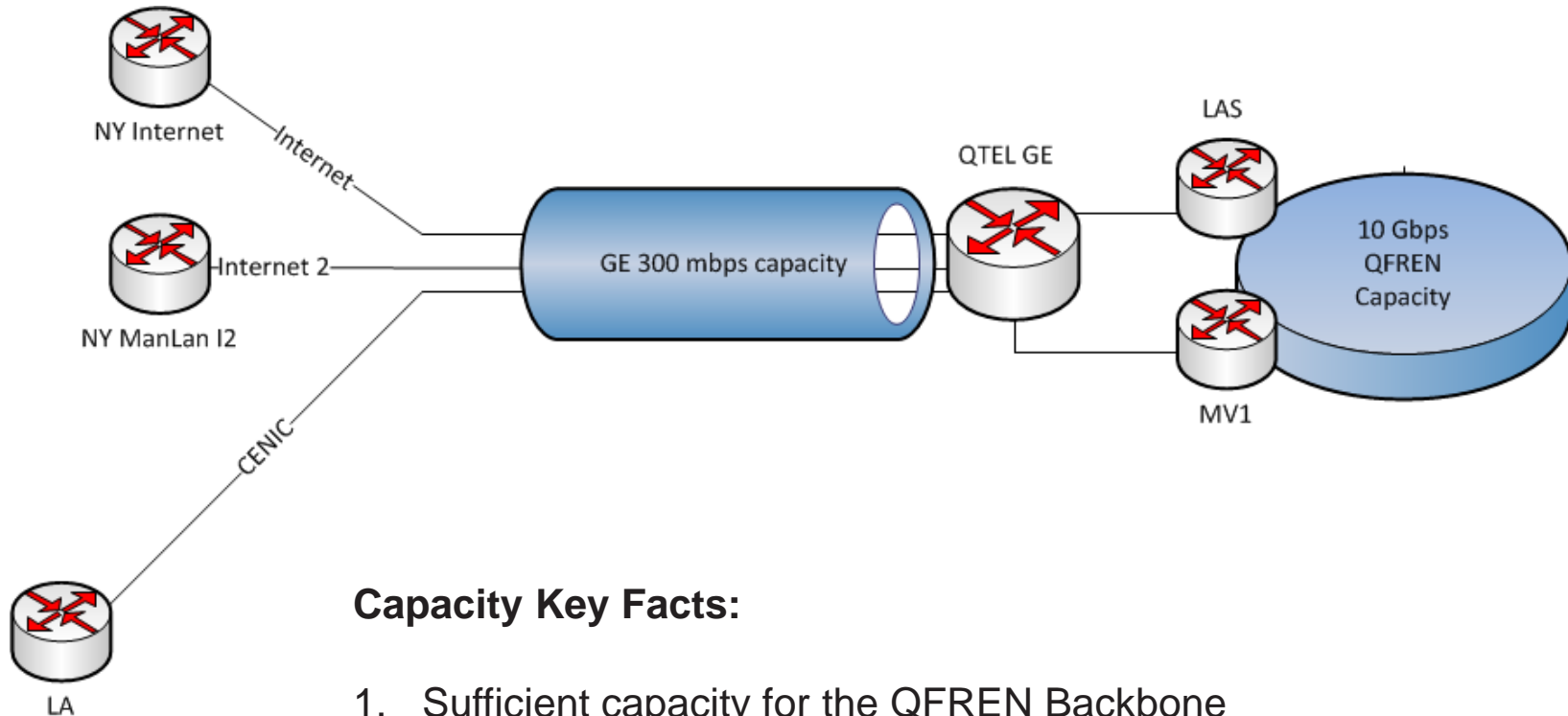
# QFREN

## Global Connectivity





# Global Connectivity Constraints :

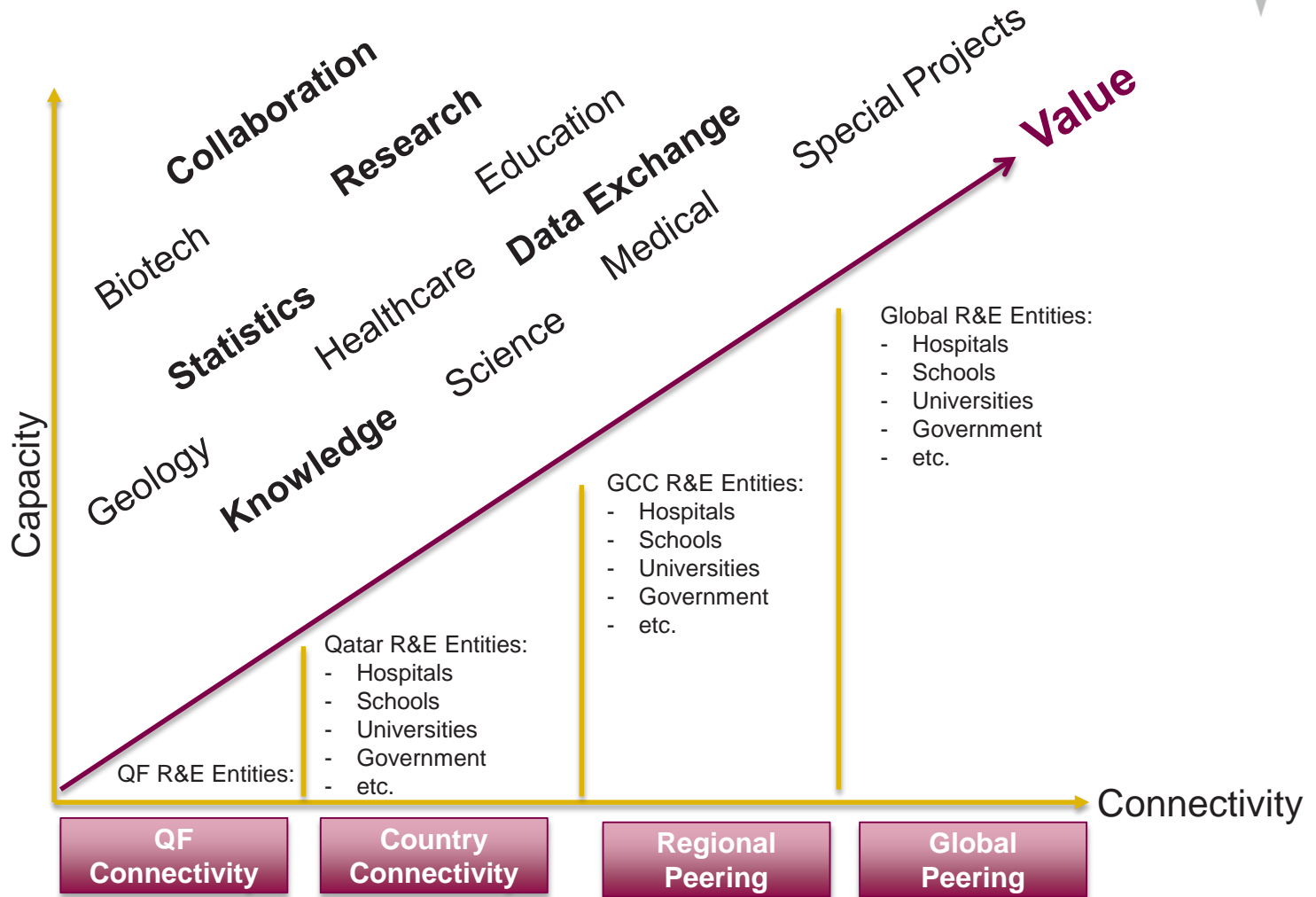


## Capacity Key Facts:

1. Sufficient capacity for the QFREN Backbone
2. Existing capacity and scalability is not sufficient for QF R&E
3. More R&E Tenants = More demand for capacity
4. Capacity constraints will push-away key REN strategic tenants
5. Strategic tool to attract key global R&E entities



# QFREN – Capacity Value Chart



# QFREN Global Connectivity Requirements'



- ▶ Scalability and coverage
- ▶ Redundancy (No single point of failure)
- ▶ Low Round Trip Delay (RTD)
- ▶ Quality Of Service
- ▶ Advanced Monitoring and Reporting
- ▶ Single point of contact
- ▶ Enforceable SLAs
- ▶ Better Value for QF R&E community



# Next Steps



- ▶ Finalize on the outstanding items for the Infrastructure.
  - Q4 2013
- ▶ Implement the Governance Model and establish QFREN Advisory Board.
  - Q4 2013
- ▶ Address the global capacity requirement for QFREN.
  - Q1 2014
- ▶ Alignment with ictQatar on the vision of a NREN.



# Thank You!

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