



## The NSF BRIDGES Project User Presentations Meeting



June 14, 2023



# Agenda

- Objective of the meeting
- Current status and updates
- Presentations from the BRIDGES Users
- Comments from the participants
- Plans for Cost-efficiency and Prolonging BRIDGES life
- Software development
- Conclusion

# BRIDGES

Binding Research Infrastructures for the Deployment of Global Experimental Science

- A Project funded by NSF IRNC (Oct 1, 2020-Sept 2023 (NCE thru Sept 2024)
- The Goal of BRIDGES is to address a Programmable Cyber Infrastructure with a Trans-Atlantic test-bed

## GMU

- Bijan Jabbari, Professor and PI
- Jerry Sobieski, SSS, Co-PI
- Liang Zhang (Post-Doc Research Fellow) and Dipak Falgun Meher, GRA

## ECU

- Chip Popoviciu, Assistant Professor and PI
- Colby Sawyer, GRA

web site: [cnl.gmu.edu/BRIDGES](http://cnl.gmu.edu/BRIDGES) (at GMU) and [www.bridges-testbed.net](http://www.bridges-testbed.net)

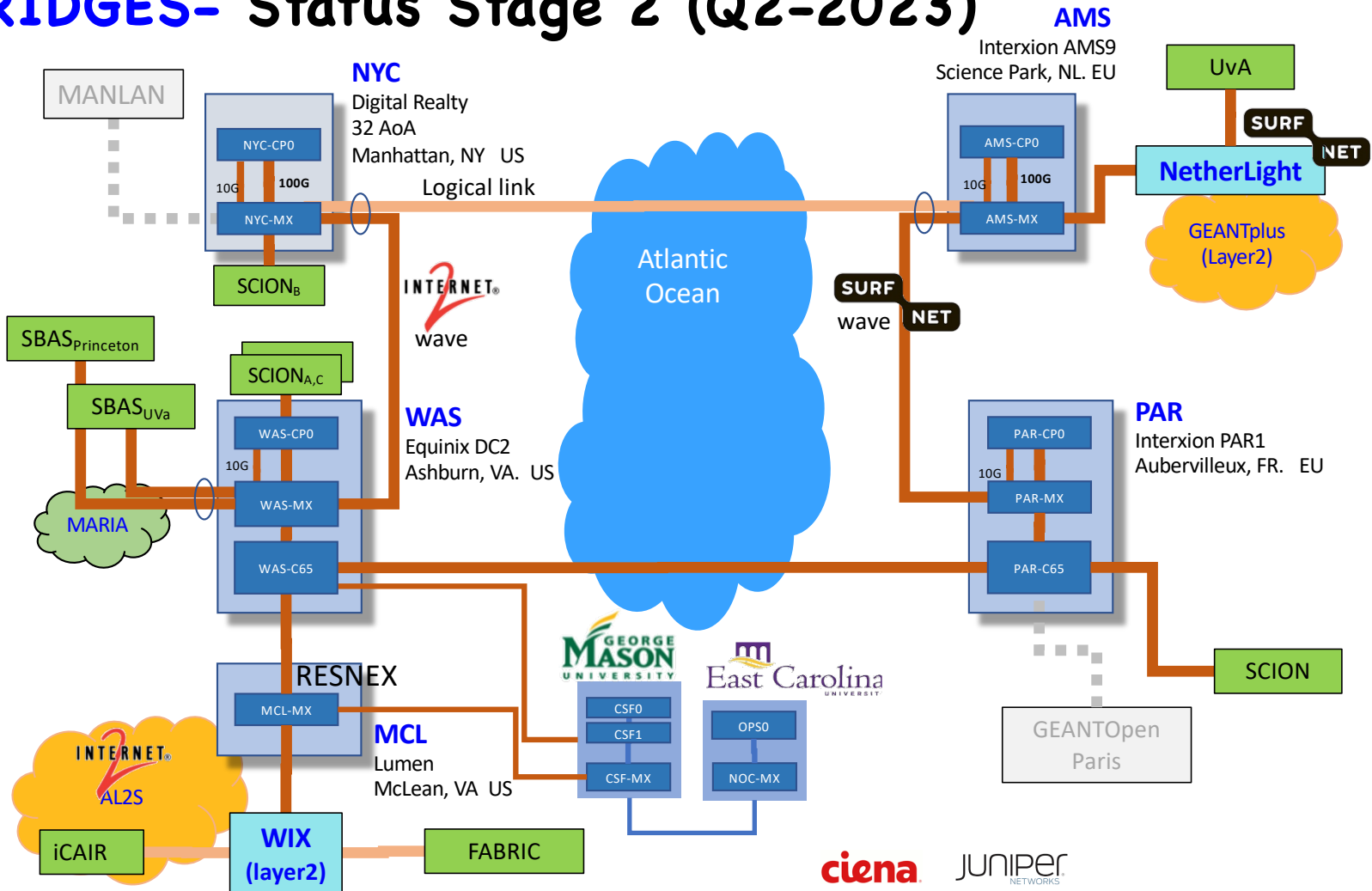
# **Presentations from the BRIDGES Users Community & Collaborators**

- Tom Lehman (FABRIC)
- David Hausheer (SCION)
- Serge Fdida (SLICES)
- Harvey Freeman
- Cees De Laat
- Joe Mambretti
- Timur Friedman



# BRIDGES- Status Stage 2 (Q2-2023)

- Capabilities:
  - Virtual Circuit(s)
    - up to 100gbps
    - E2E between any BRIDGES nodes
  - User access to Ubuntu Servers at each node
    - 24 core
    - 100GE and/or 10GE connected
  - Virtual Machine(s) – manually provisioned atm, Soon auto-provisioned
- Connectors:
  - NetherLight @100Gbps -> GEANT and other EU networks
  - WIX @ 100Gbps -> Internet2 and other US connectors
  - MARIA (Virginia at 100gbps)
  - SCION/SBAS program
    - SCION (Univ of Magdeburg), WAS
    - SBAS in Washington via MARIA (Univ of Virginia, Princeton)



## Discussions

- To hear from the community on future projects and use of the facilities
- Considerations for Cost-efficiency and Prolonging BRIDGES life
- Other
  - Advice
  - Help Awareness