

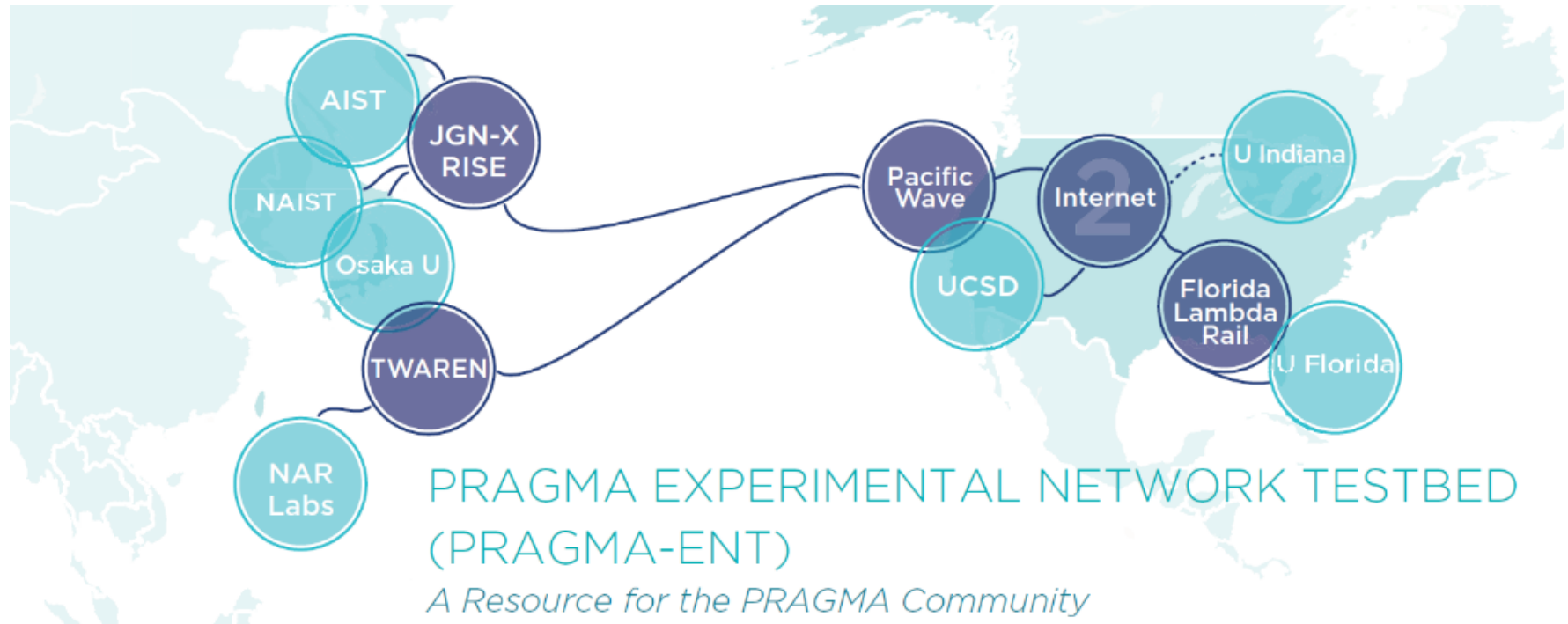
# Automation of Virtual Network Creation for SDN Testbed

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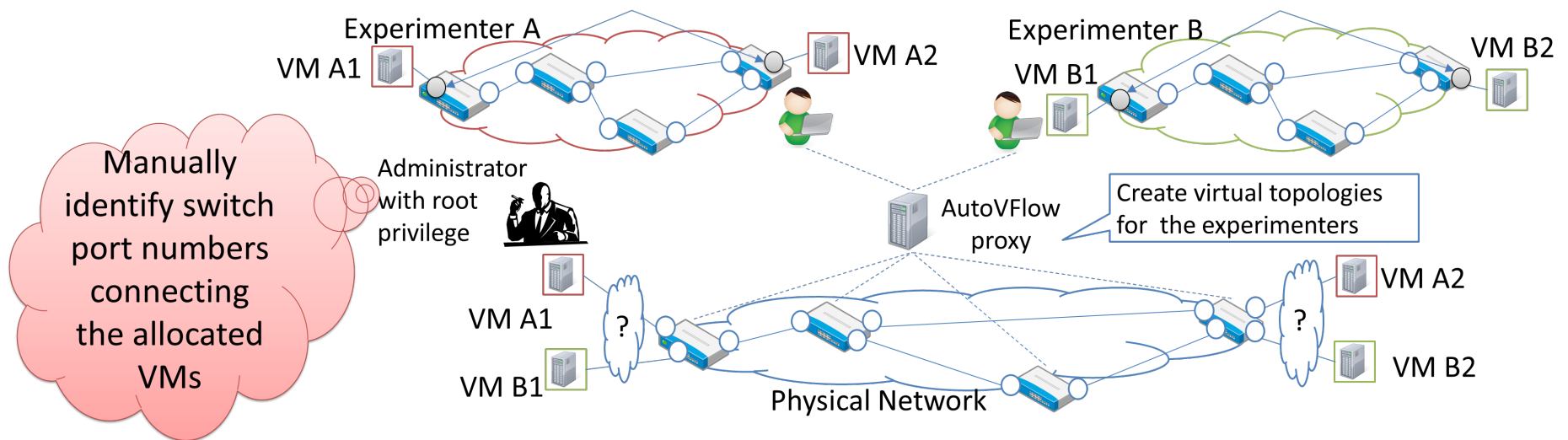
# PRAGMA-ENT



- International software-defined network (SDN) testbed for PRAGMA
- Virtual networks are provided to individual experimenters

# Operational overheads on virtual SDN testbed

- Problem: **Manual configuration** is enforced to create virtual network topology in state-of-the-art SDN virtualization implementations
  - Discourage to create virtual networks quickly and to accept many experimenters



# Automation of virtual topology creation

- Open up the possibility of **full-automation of virtual network creation**
  - Monitor incoming data packets and identify the connecting ports
  - Identify by the MAC address which all the types data packets have

