

# The AA requirements from the voice and video-conferencing community

Joint meeting with TF-EMC<sup>2</sup> and TF-Mobility  
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Fabio Vena, Erik Dobbelsteijn, Jan Ruzicka

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# What's behind ECS?

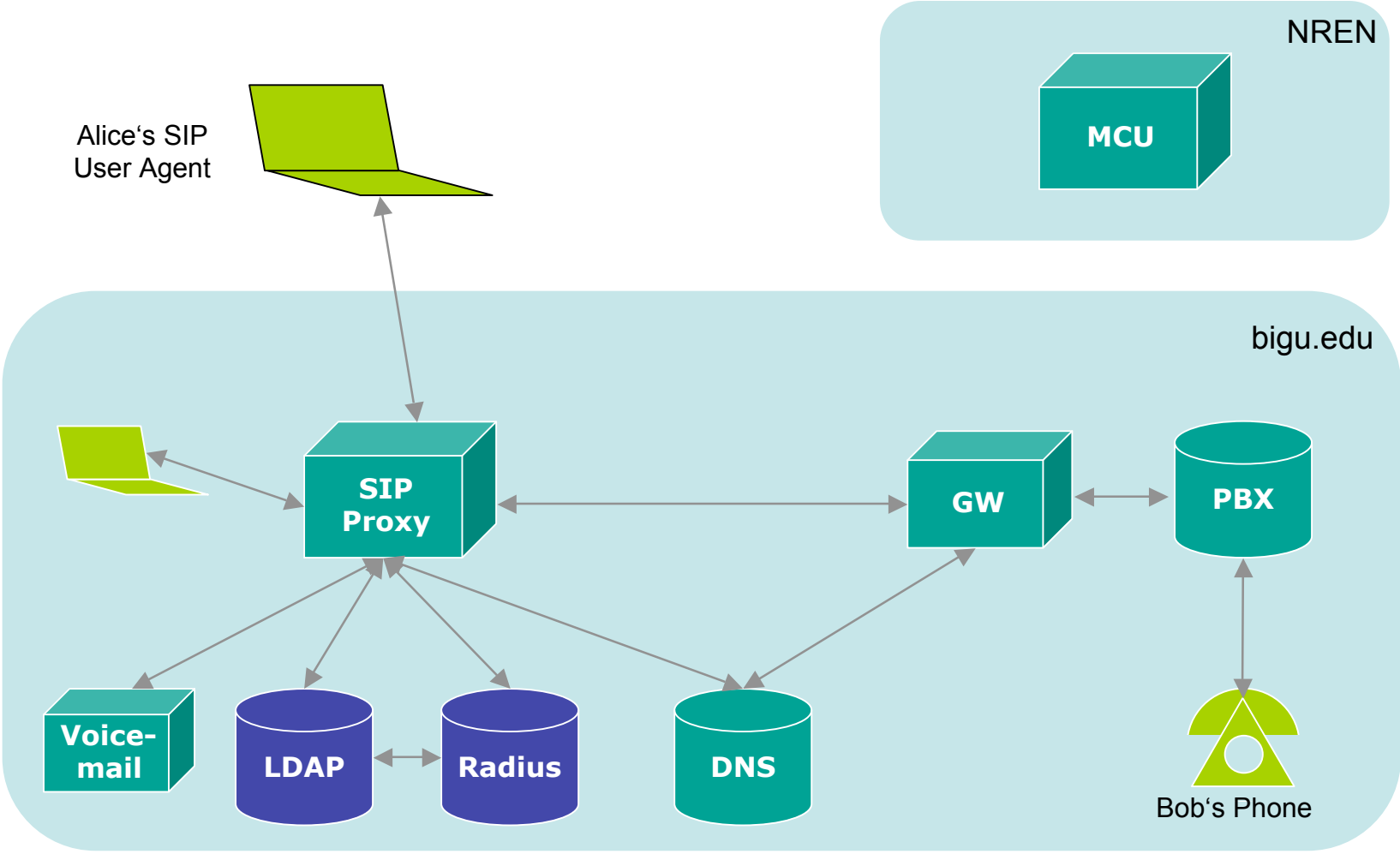
*“The Task Force Enhanced Communication Services (TF-ECS) will explore collaboration tools and technologies that **go beyond simple voice and video** conferencing. They will coordinate current national activities and assist in the rollout of **next-generation collaboration services**. The task force will investigate the **impact of future developments** in real-time communications and will define an architecture and **trust model for peering** such deployments in national research and education networks.”*

*<http://www.terena.org/activities/tf-ecs/>*

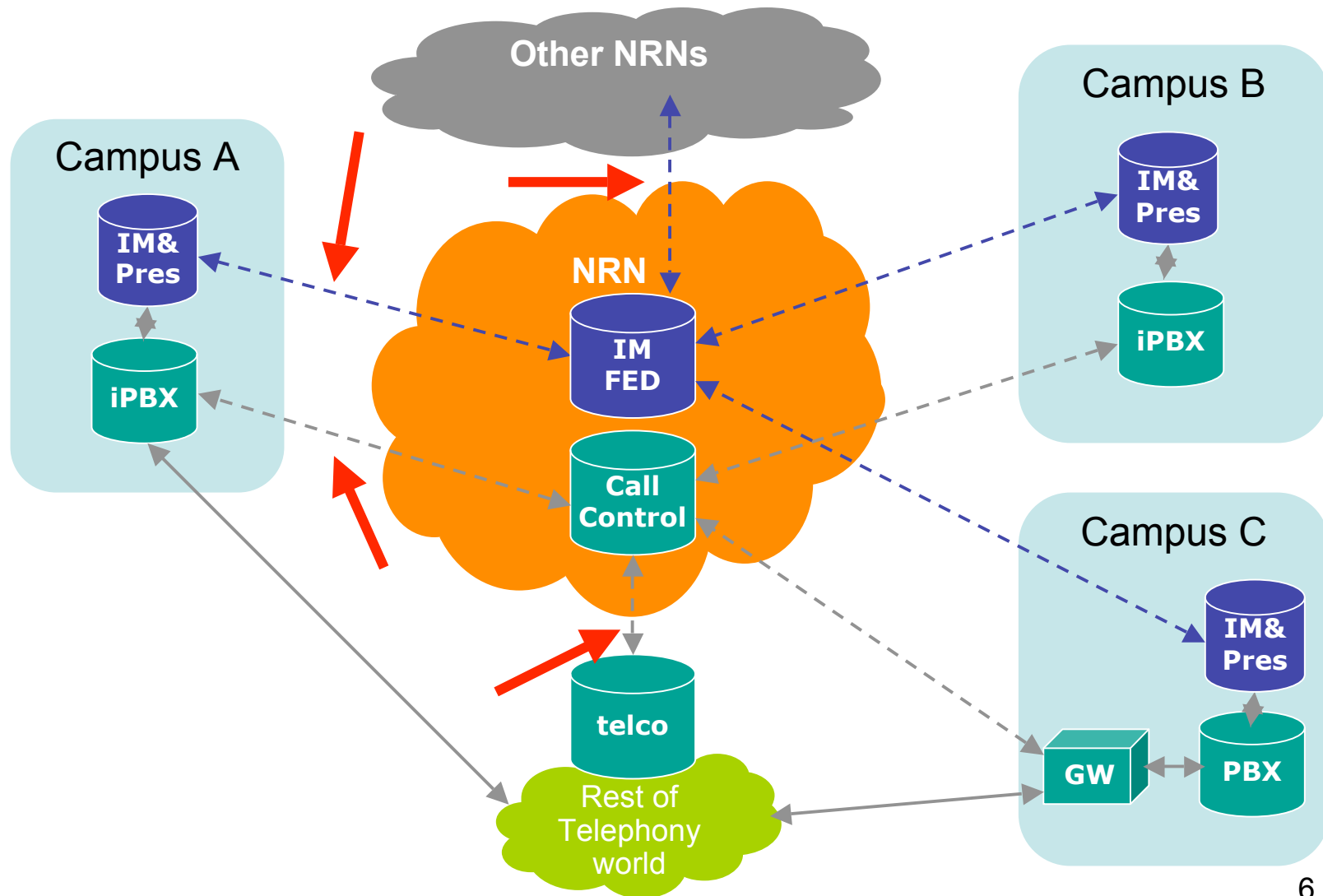
# Enhanced Functionalities

- Voice (PBX interconnection)
- Video
- Multipoint Conferencing
- Presence
- Instant Messaging
- Voicemail

# A typical local deployment



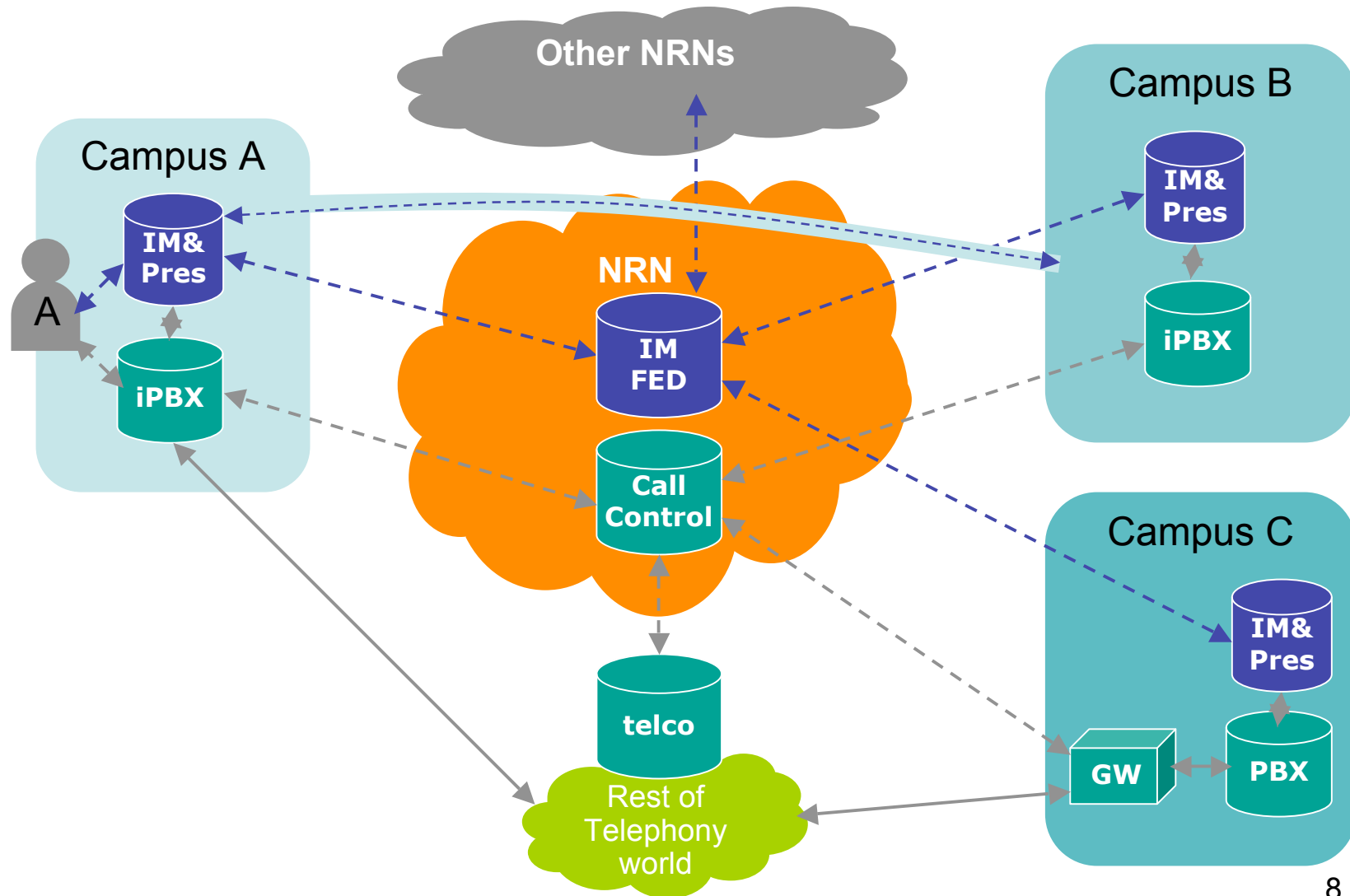
# Inter domain SIP



# Inter domain issues

- Firewall
- Mutual Authentication of (access) proxies
- Scalability
- Firewall traversal of media
- Roaming: assumption that VPN is used

# Roaming



# Authentication

- Local – HTTP Digest and TLS (client certs?)
- Interdomain – opening of closed islands and interconnecting of them, anti-spit
  - HTTP digest - weak and uncomfortable
  - TLS
    - Hop-by-hop
  - identity assertions
    - signed headers SIP-identity RFC4474
    - SAML

# SIP „trapeziod“

