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# Brief Update on GN2-JRA4 (Testbed)

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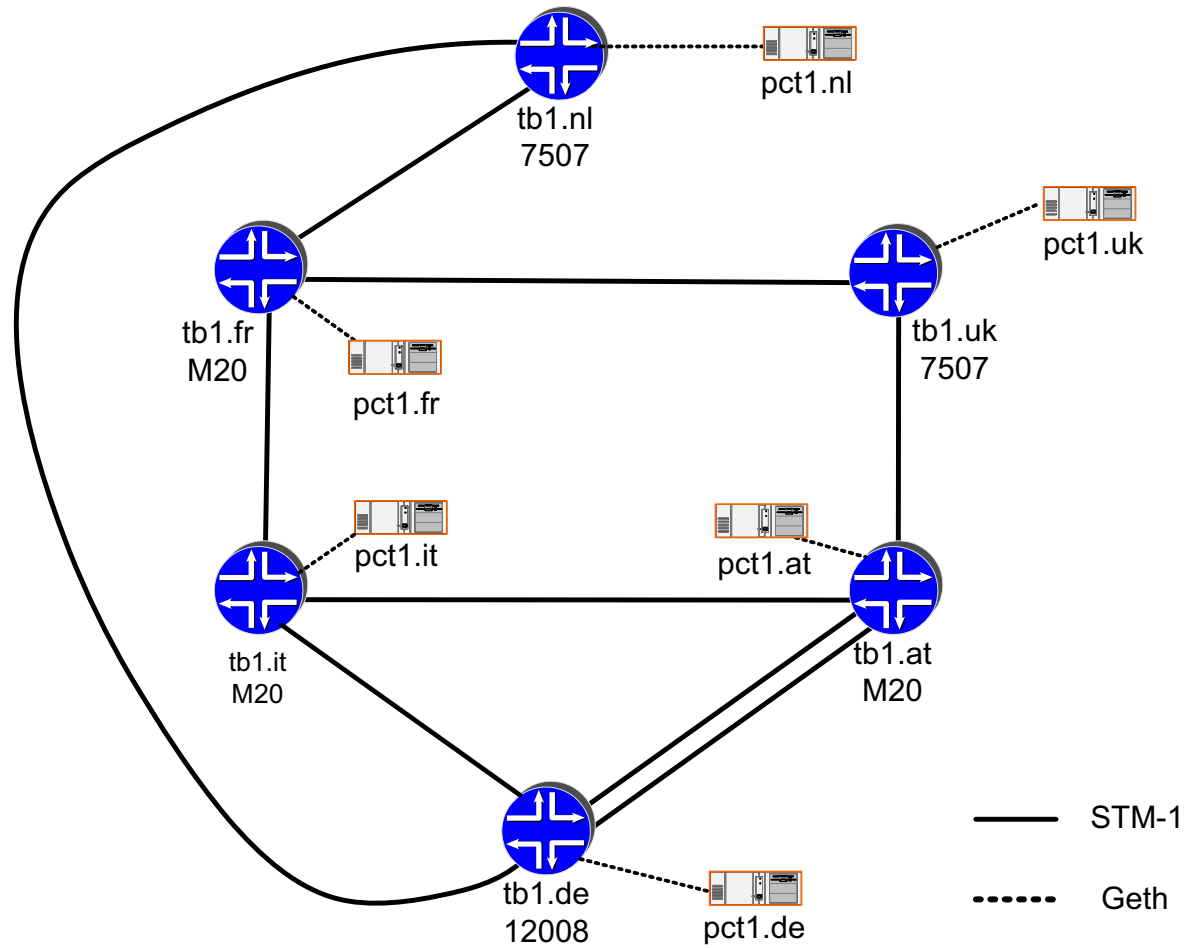
28<sup>th</sup> July 2005, TF-NGN-18, Paris

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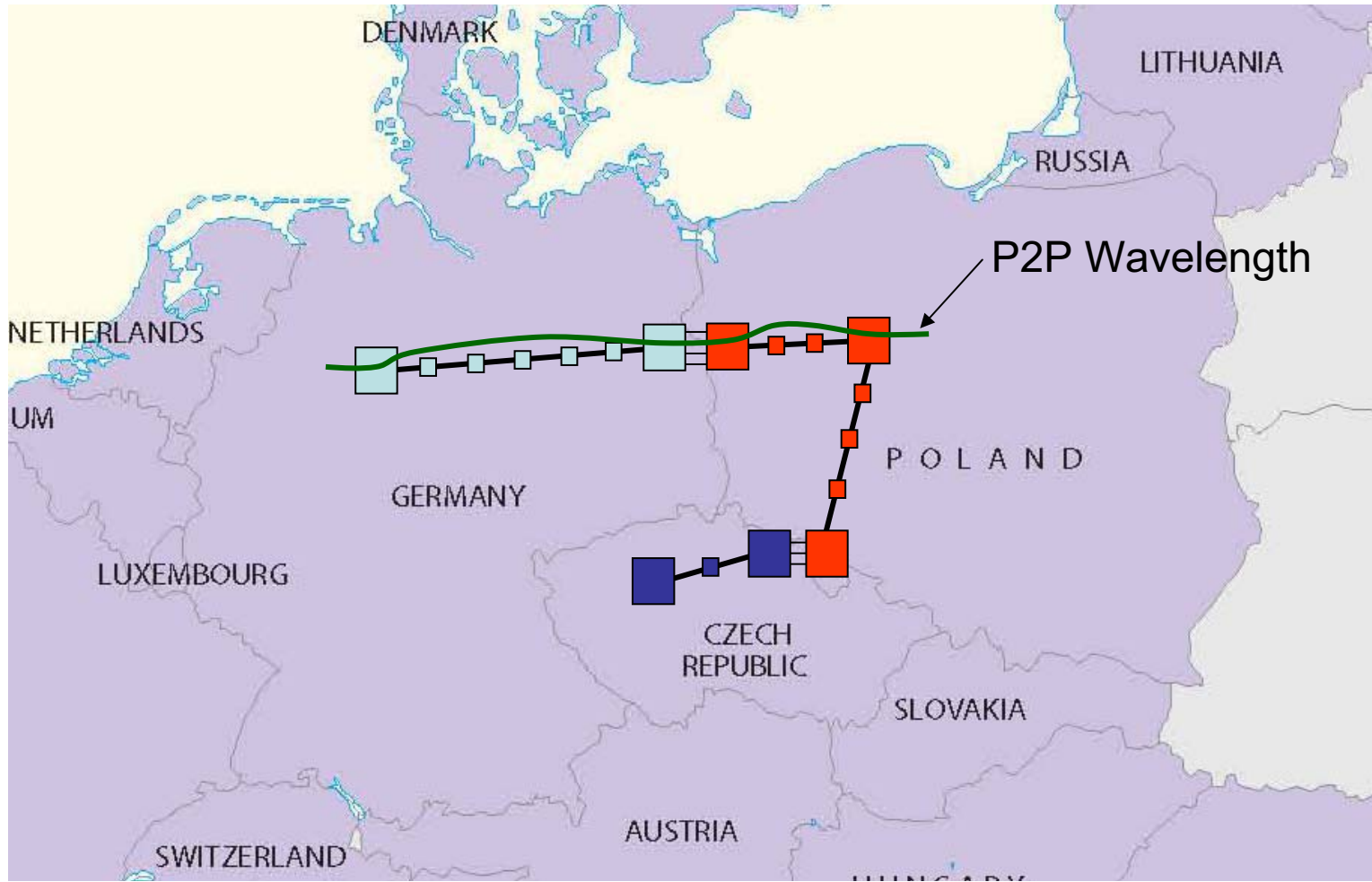
## Reminder

- **Build and operate an Enhanced (“production”) Testbed facility (WI-01)**
  - Principle users: other JRAs, GN2 partners, other FP6 projects...
- **Undertake other technology testing activities (WI-02)**
- **Budget of €2.6M for equipment and connectivity**
- **Kick-off meeting held in Nov 2004**
- **GN2 user reqs polled**
  
- **Testbed construction delayed...**
- **...need to build production network (GÉANT2) first**
  
- **New WI being added: Cross-border fibre testing**

# Current Testbed



# Cross-border Fibres (CBF)



# WI-03: Cross-border fibres 1



- **Examine technical aspects of providing international connectivity for GN2 utilising interconnected dark fibre of neighbouring NRENS**
- **Proposed DoW includes:**
- **Network engineering requirements:**
  - minimum requirements that must be met by entities contributing CBF
  - include parameters such as:
    - minimum number of wavelengths that can be made available
    - formats supported (such as SDH/SONET or 10GE LAN-PHY)
    - services supported (such as Ethernet mapped into GFP with VCAT)
    - provision of PoPs by NRENS (power, climate, etc)
- **Engineering rules:**
  - a set of engineering principles to be adopted when using CBF

## WI-03: Cross-border fibres 2



- **Pilot tests:**

- a limited number of test cases set up to gain experience with the use of CBFs for GN2:

- **Operational:** definition of management interfaces (human, technical), SLAs, fault fixing and reporting procedures, trouble tickets
    - **Technical:** evaluation/feedback of technical parameters for CBF requirements

- **Development of an Operational Concept:**

- All results of the pilots and technical concepts have to be brought into an operational concept for GN2.

# Questions?