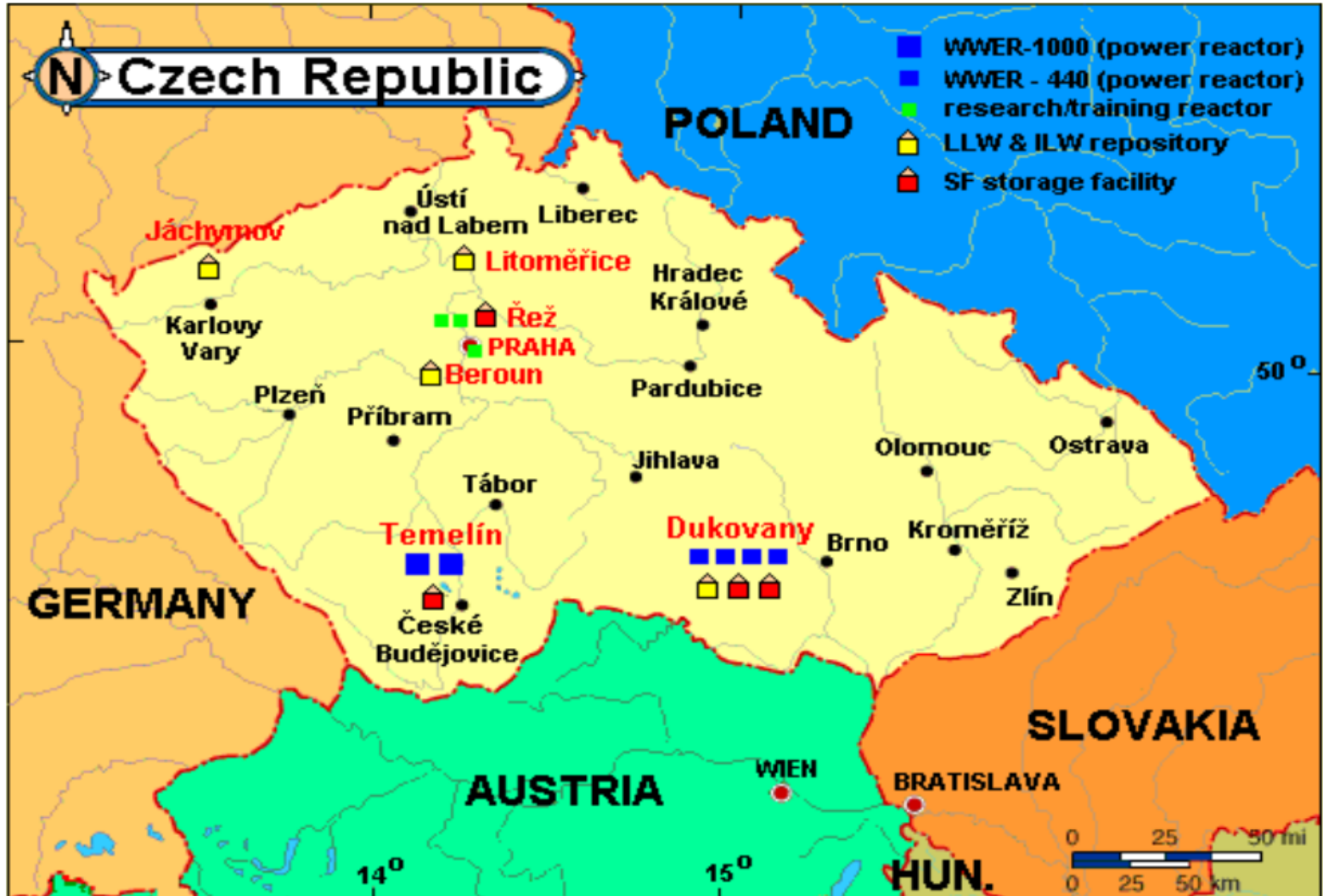


# Czech-Austrian Cooperation and Data Exchange in case of Severe Nuclear Accidents

**SÚJB and BMLFUW**



# Situation



# Bilateral Cooperation

- Bilateral agreement on issues of common interest in the field of nuclear safety and radiation protection
- Annual Bilateral Expert Meetings for information exchange in the field of radiation protection, EPR and nuclear safety
- Automatic exchange of measurement data between the Automatic Monitoring Systems of Austria and the Czech Republic
- Installation of an automatic air monitoring station in České Budějovice (with data access for the Czech Republic and Austria)
- Additional Information Hotline for small events/incidents at Temelín NPP (media relevance)

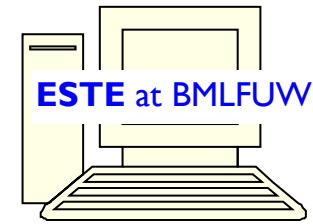
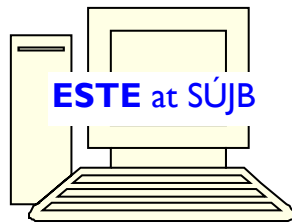
# Bilateral Cooperation

- Austrian participation as observer in the exercises at Temelín and Dukovany NPPs
- Information for evaluating off-site consequences of nuclear accidents at Temelín or Dukovany NPP:
  - Data exchange between ESTE decision support systems which have been implemented in the Czech Republic (SÚJB) and in Austria (BMLFUW).
  - Exchange of results from the Austrian prognoses system TAMOS.
- Annual joint bilateral exercises focusing on the data exchange between the ESTE systems in Prague and Vienna

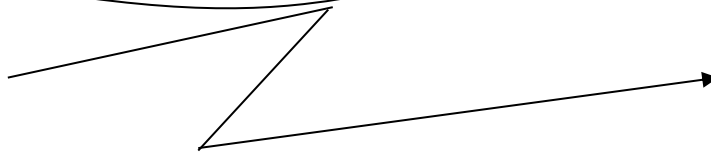
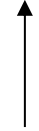
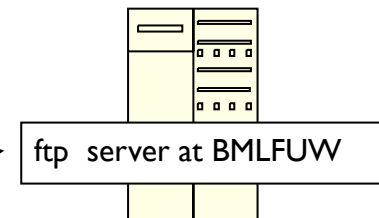
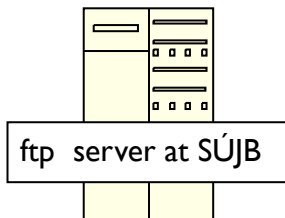
# Data Exchange between ESTE systems

- data from NPP
- radiological monitoring
- numerical weather prediction
- possible input from the crisis staff

- radiological monitoring
- numerical weather prediction
- possible input from the crisis staff



- state of the core
- prediction of the source term
- really observed release
- meteo data



# Data exchange in emergencies/exercises

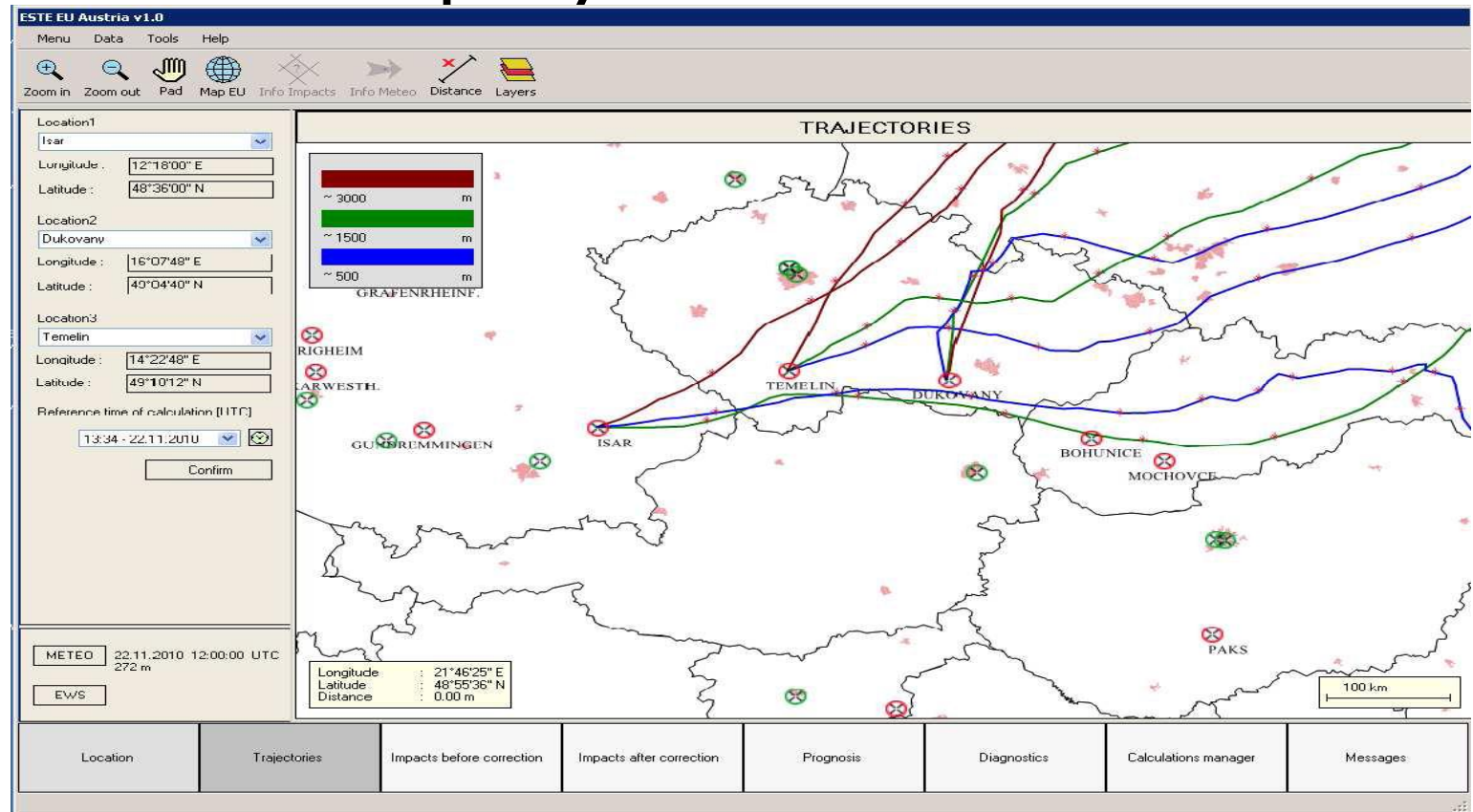
- SÚJB
  - Start of data exchange - decision of Head of Crisis Staff
  - Data export in 1 hour interval
  - No need for further action
  - End of data exchange - decision of Head of Crisis Staff
- BMLFUW
  - Automatically starts calculation of impact on Austrian territory

# Transmitted data

- From Prague to Vienna:
  - data on the plant status (status of the core)
  - source term data (prognosis and real source term)
  - on-site meteorology
- From Vienna to Prague:
  - expected trajectories (TAMOS)
  - time integrated air concentrations (TAMOS)
  - deposition of activity released from the reactor under accident, calculated in European scale by TAMOS system in Vienna

# Test and exercise

- Regular test - 1 per month
- Exercise – 1 per year





## Conclusion

- Good experience with exercises since 2006
- Data exchange will be upgraded this year
- In case of an accident at NPPs Temelín or Dukovany the Austrian BMLFUW has in principle the same technical information relevant for off-site EPR as SÚJB in Czech Republic