

STRATEGIC INTERCHANGE  
BETWEEN SEA AND RAIL FREIGHT:  
WHAT'S NEW?

TRIESTE, 2-3 APRIL 2014

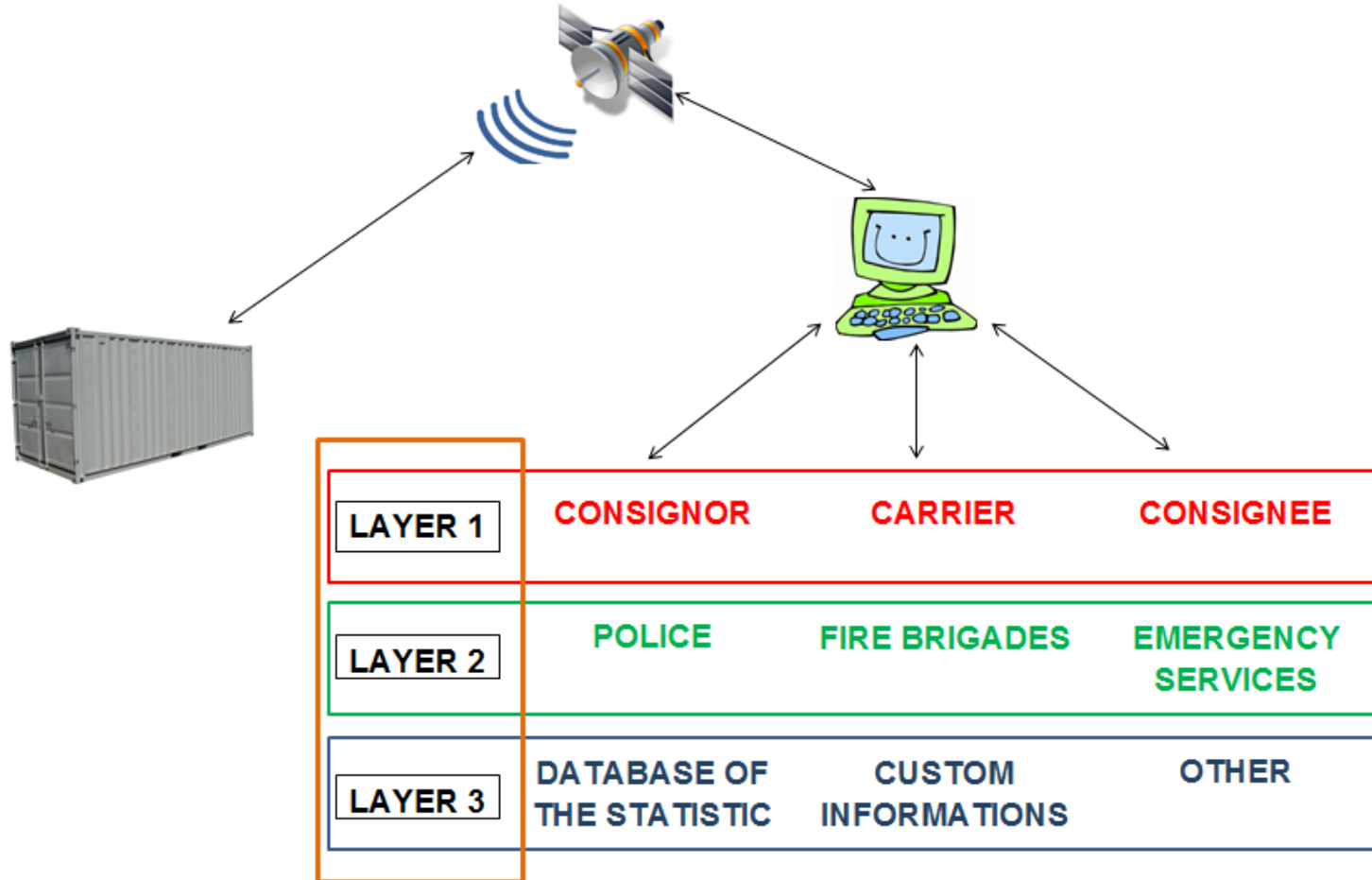
- Project ChemLog TaT – more safety for multimodal transport

Ing. Jaroslav ČERMÁK  
Coordinator of ChemLog T&T project  
Slovak chemical association

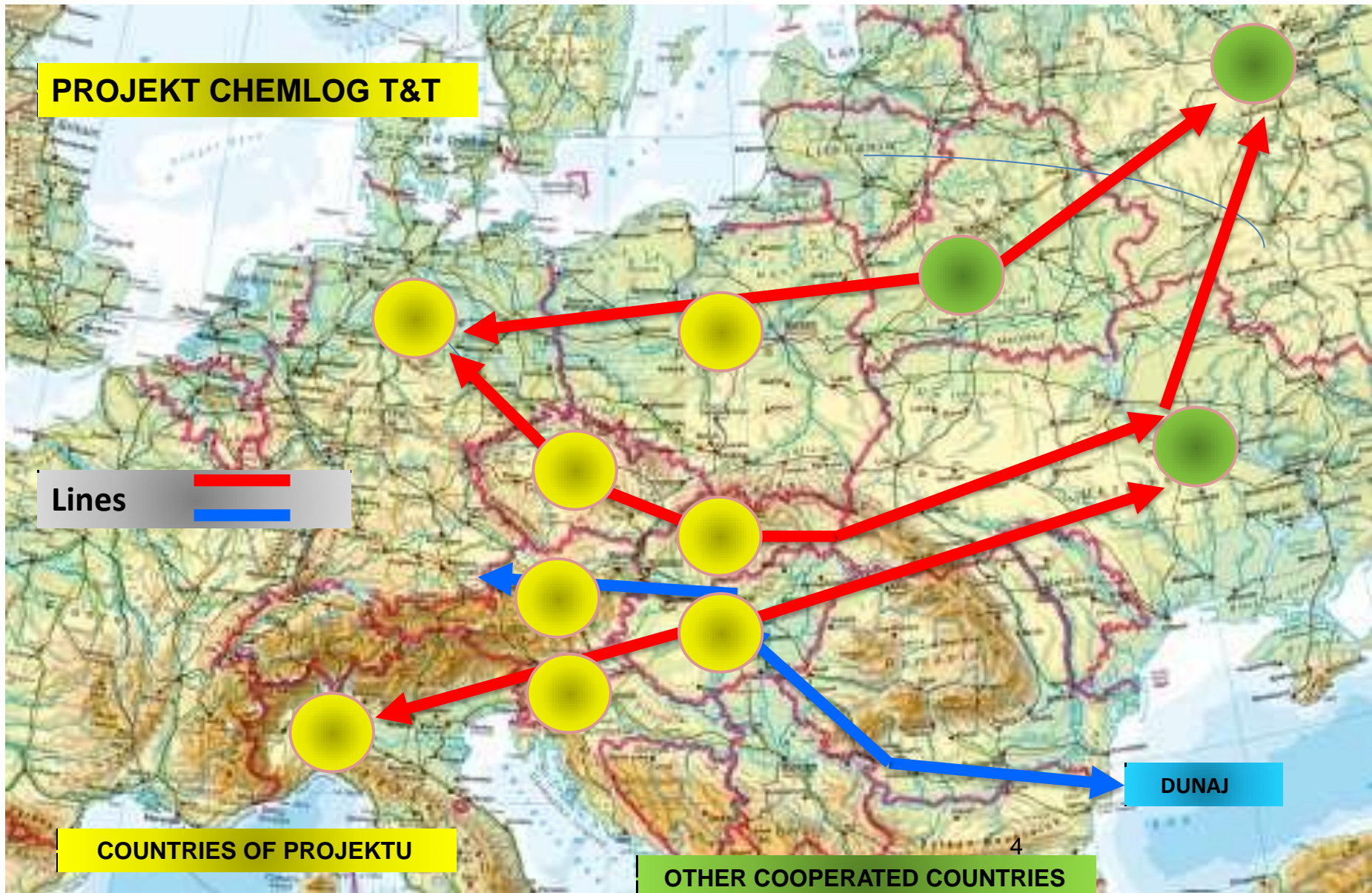
# T&T technology for dangerous good

- Project ChemLog TaT – from 2012 to 2014
- Operational program Central Europe
- Coo-financing 85%
- Tracking and tracing technology for multimodal transport
- GPS localisation, in future Galileo
- Transfer of information – GPRS net
- Priority high consequence dangerous good – ADR/RID 1.10
- Connection of chemical analyser – gases
- Chlorine – alternative of transport restriction
- Connection of physical sensors – press, temperature
- Checking of temperature of ethylene tanks
- Geofencing – area of cities – info to 112
- Limitation of localisation periode - x minutes - y hours

# Structure of TaT systems



# Lines of pilot project ChemLog T&T



## OBU unit on self unloading railway wagon



- Transfer of information to Integrated Rescue System – 112
- Localisation of high consequence dangerous good
- OBU for multimodal transport
- Automatic signalisation of transport accident
- Pilot projet – test of OBU on multimodal trains in Europe
- Progress – more safety and security for dangerous good

**Thanks for your attention**

[www.zchfp.sk/chemlog](http://www.zchfp.sk/chemlog)

mail:jcermak@duslo.sk