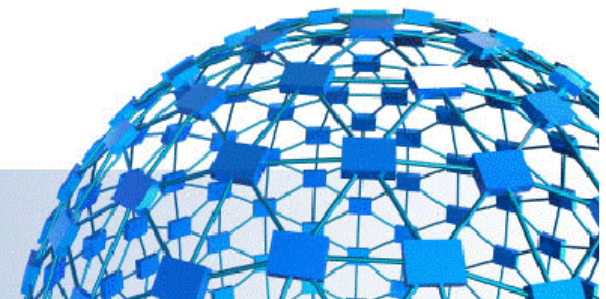


NEWADA

Results of cooperation on hydrographical and hydrological activities

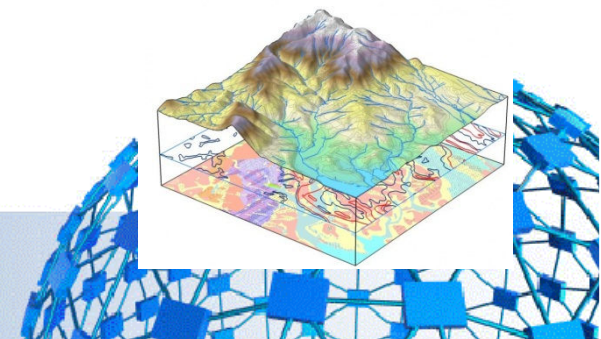
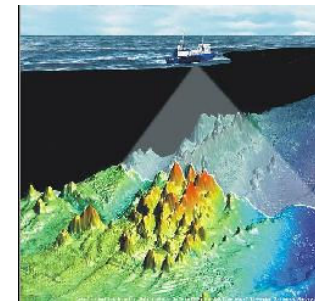
**Stefan Polhorsky, SVP, s.p.
Budapest, 22.2.2012**

- **Improve methods, processes and procedures for hydrographical and hydrological activities**
- **Enhanced cross-border cooperation**
- **Identify areas for joint research activities**



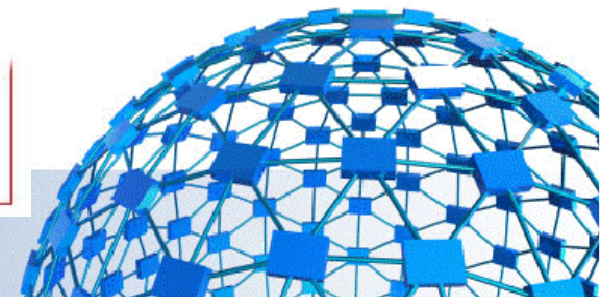
Improve methods, processes and procedures for hydrographical and hydrological activities

- **Duration: 1/4/2009 – 30/6/2012**
- **Participants: AT, SK, HU, RS, BG, RO**
- **Main goals:**
 - Establishing of the team of experts in relevant field
 - Status quo reports on hydrographical activities
 - Status quo reports on hydrological activities





- Overview materials on hydrology and hydrogra
- Materials are based on information from responsible organizations
- Possibility for comparison & definition of ne



Hydrology:

Water level, discharges,
water temperature,
water courses, etc.

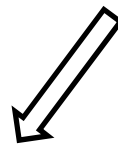


Hydrography:

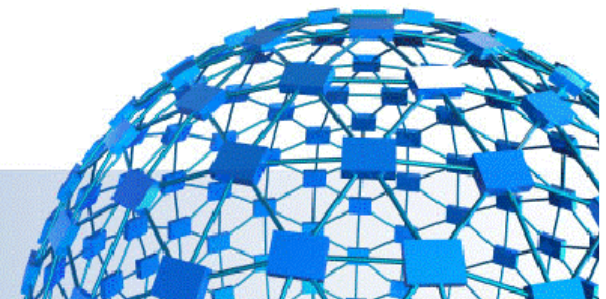
Water level – permanent checking
with GPS (altitude)

Water temperature – entry to the
software (ultrasound)

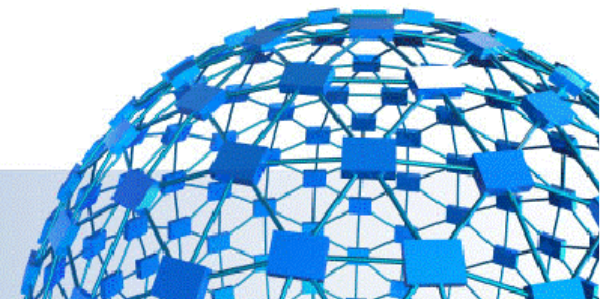
Water courses, discharges – plans
of measurement



Qualitative hydrographical results
(cross profiles, DTM of river bed,
etc.)



- **Duration: 1/1/2010 – 30/9/2011**
- **Participants: AT, SK, HU, RS, BG, RO**
- **Main goals:**
 - **Report on Common understanding on surveyi activities**
 - **Plans for optimization of hydrographical activities and intensification of cross-border activities**





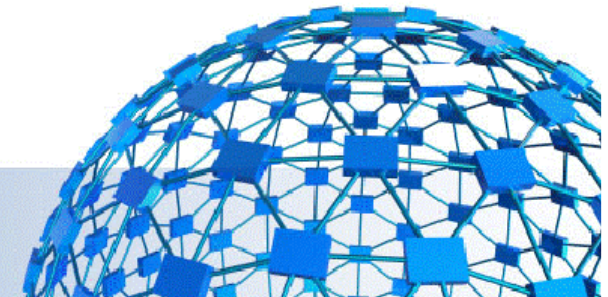
Common understanding – definition of missing materials:

- Minimum quality standard for hydrography measurements:
 - Existing – DE, AT, SK
 - Missing – HU, RS, BG, RO – added within 3.2
 - Background materials – GIS FORUM DANUBE



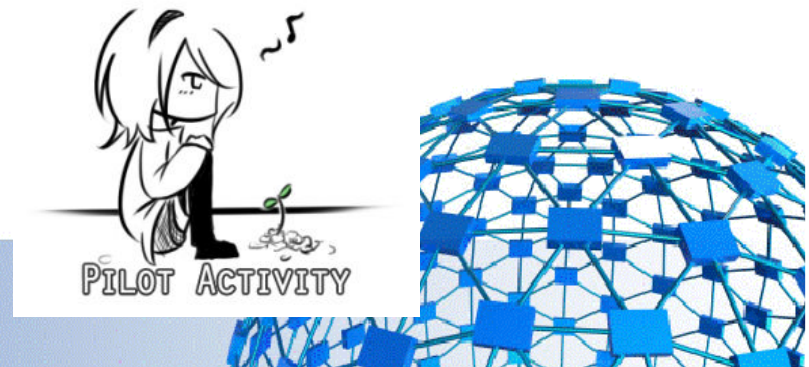
Plans – main goal – description of current status + future vision up to 2020 (short, mid & long term)

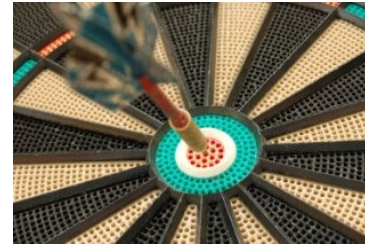
- AT, SK, HU – Transboundary Water Commissions already exists
- RS, BG, RO – establishment of relevant expert groups (ENC, hydrography,...)



Identify areas for joint research activities

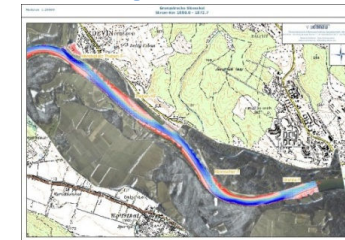
- **Duration: 1/1/2011 – 30/11/2011**
- **Participants: AT, SK, HU, RS, BG, RO**
- **Main goals:**
 - **Joint research agenda**
 - **Common pilot activities**





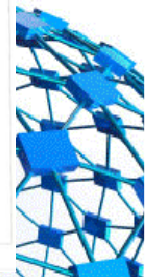
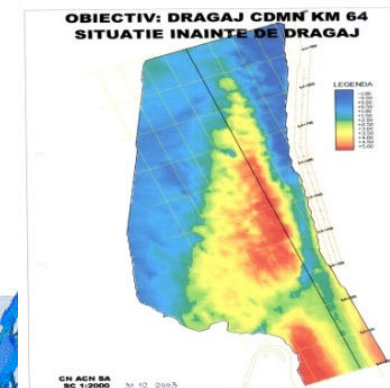
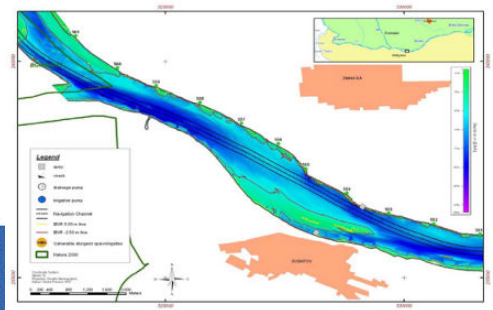
Provision of Joint research agenda – 2 agendas

- Future technique in hydrographic surveying
- Future technology for discharge measurements and suspended sediment load



Common pilot activities – 3 pilots

- Activities on common BG-RO stretch of Danube
- Cross profile measurement on common AT-SK stretch of Danube
- Common action – Confluence Danube-Black Sea channel (common action AFDJ – ACN)



Expert exchange in field of hydrology and hydrography



SQR on hydrology and hydrography



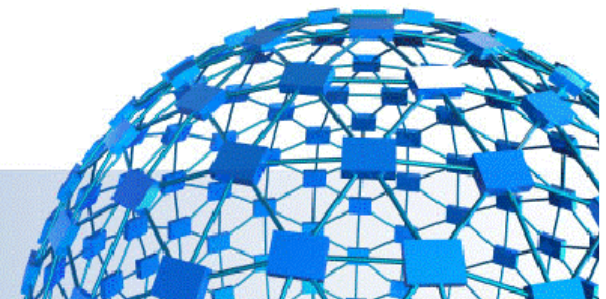
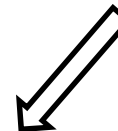
Common understanding on surveying activities (quality standard)

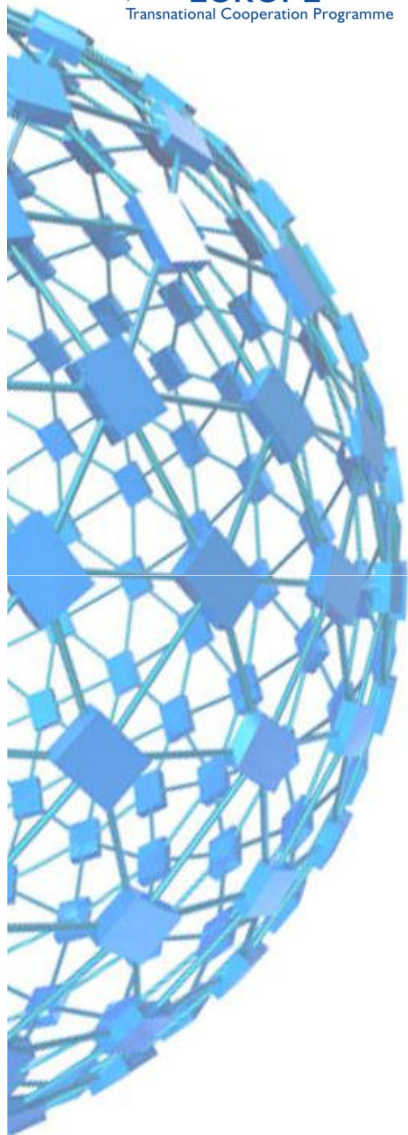


Plans for optimization of hydrographical activities and intensification of cross-border activities (short, mid & long term vision up to 2020)



Common pilot activities & Joint research agenda





Thank you for your attention!

Stefan Polhorsky
stefan.polhorsky@svp.sk