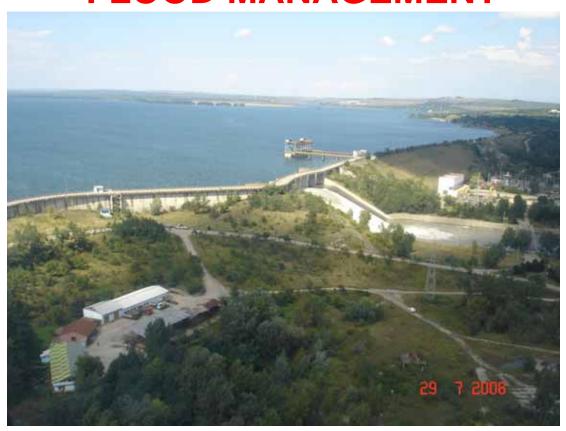
HYDROSOLIDARITY IN PRUT RIVER BASIN

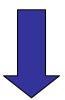
- KEY ELEMENT IN TRANSBOUNDARY FLOOD MANAGEMENT -



CEE NBO & N.A. Apele Romane

Ovidiu GABOR, Deputy Director, Vice-President of CEE NBO

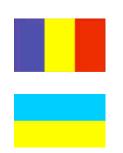
To accomplish the WFD + FD objectives at transboundary river basins level



Harmonizing the National Plans



HARMONISED BILATERAL
AGREEMENTS (RO + UA; RO + MD)



BILATERAL AGREEMENTS



Romania – Ukraine:

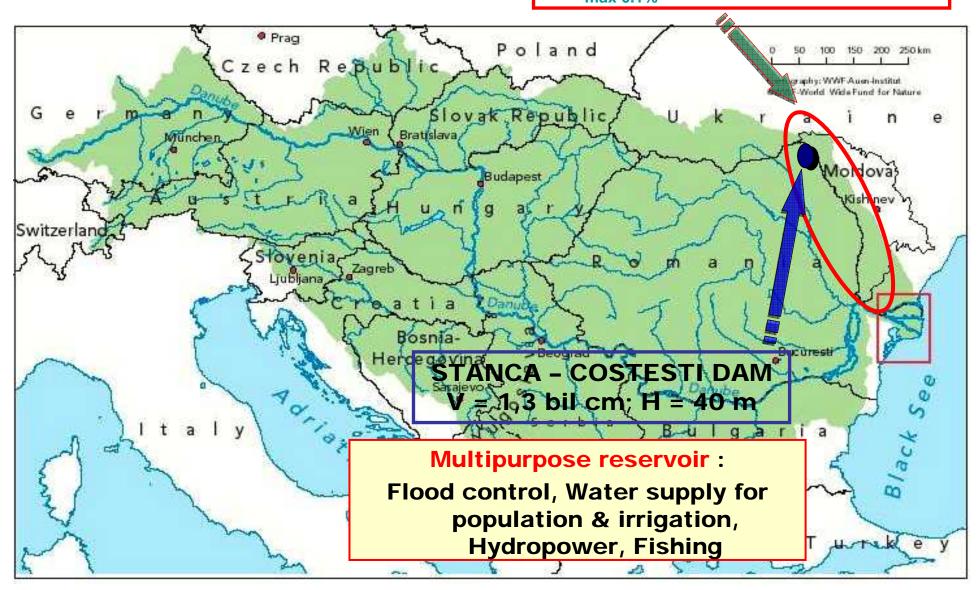
- Agreement on the cooperation in the transboundary waters field (Galati, 1997)
 - > Flood management
 - ➤ Water quality
 - > Exchange data

Romania – Moldova:

- Bilateral agreement to operate Stanca Costesti Dam - 1982
- MoU for the cooperation on the Prut river between N.A. "Apele Romane" / "Romanian Waters" and the related institution from Moldova "Moldavien Waters" – 1995

RIVER PRUT BASIN GENERAL DATA

- RB Prut surface 10.990 km²
- Prut river length 742 km
- $-Q_{\text{max }1\%} = 4150 \text{ m}^3/\text{s}$
- $Q_{max 0.1\%} = 6550 m^3/s$



Historical flood event on Prut river 24/07 – 31/07/2008

... the greatest flood event registrated on Prut river till present:

- Flow: $Q_{max} = 4650 \text{ m}^3/\text{s} > Q_{1\%}$
- Shape of hydrograph: two peaks
 - H_{1max} = 1130 cm, exceeding the danger level with 5.30 m
 - H_{2max} = 1058 cm, exceeding the danger level with 4.58 m
- Volume : 1.400 bil cm
- Time : 8 days
- Speed: water level in the reservoir increased with 8.64 m in 3 1/2 days (max. increasing being of 2.66 m / day-normally 1m / day).

AC. STANCA-COSTESTI

STANCA AVAL

FLOOD SCENARIO "A" Q_{out} = 750 CM/S

POTENTIALLY AFECTED

People + Goods:

- People = 2800
- Houses = 721
- Roads = 60 km
- Agr. Land = 8400 ha

FLOOD SCENARIO "B"

Q_{out} = 1000 CM/S

POTENTIALLY AFECTED

People + Goods:

- People = 8500
- Houses = 2530
- Roads = 180 km
- Agr. Land = 17200 ha

INC. TRIFESTI-SCULE

INC. SCULE VI-TUTORA UNGHENI

INC. TUTORA-GORBAN

DRINCENI

PRISA CANI

FLOOD SCENARIO "C" Q_{out} = 1250 CM/S

POTENTIALLY AFECTED

People + Goods:

- People = 15000
- Houses = 4575
- Roads = 260 km
- Agr. Land = 35841 ha

FLOOD SCENARIO JOINTLY ADOPTED

 $Q_{in} > Q_{1\%};$ $Q_{out} = 750 \text{ m}^3/\text{s}$

PROTECTED People + Assets :

- People = 15000
- Houses = 4575
- Roads = 260 km
- Agr. land = 35841 ha

CONCLUSIONS

- Downstream reservoir no fatalities and not affected properties;
- The reservoir has been jointly operated by ROMANIA and MOLDOVA, according to the new operating guide regulation (2007);
- 3. Technical decisions have been permanently harmonized by the involving parts;
- Political decisions have been taken based on technical decisions;
- 5. Permanent information of the population, on both sides of the Prut river;
- 6. Necessity of a new trilateral cooperation agreement (Ukraine, Rep. Moldova, Romania).

FLOOD HYDROGRAPH 24.07.-10.08.2008

