



# Water Evaluation And Planning System Training

PASI – La Serena, Chile June 27, 2013



# **Exercise – WEAP in One Hour**

Let's get started!

# **Exercise – Scenarios in WEAP**

#### **Scenarios**

- A systematic way of thinking about the future
- Help us gain a better understanding of the *possible* implications of decisions (or non-decisions) across scales and time
- Help us work with uncertainty
- Support decision-making

# **Exercise – Scenarios in WEAP**

#### **Potential Scenarios**

- Current trends
- Increasing population
- Changing irrigation demand
- Change in operations rules
- Change in supply
- Change in infrastructure
- Change in land use
- Change in climate

# Exercise - Scenarios in WEAP

#### Scenario structure in WEAP

- Current accounts
  - The state of the system at start of simulation
- Reference scenario
  - A simulation of the system without any changes
  - The "no action" scenario
- "What if?" scenarios
  - Changes to infrastructure, demand, supply, operating rules

# Exercise - Scenarios in WEAP

Switch to WEAP

### **Exercise – Refining the Supply**

- Utilizing return flows
- Reservoirs
- Flow requirements
- Groundwater

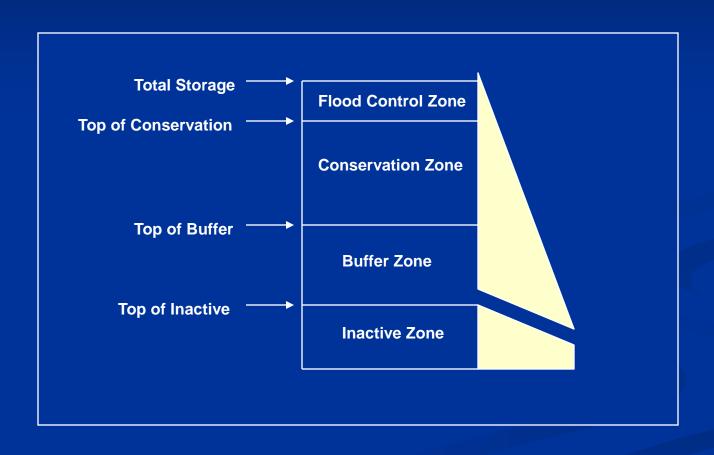
### **Exercise – Refining the Supply**

Switch to WEAP

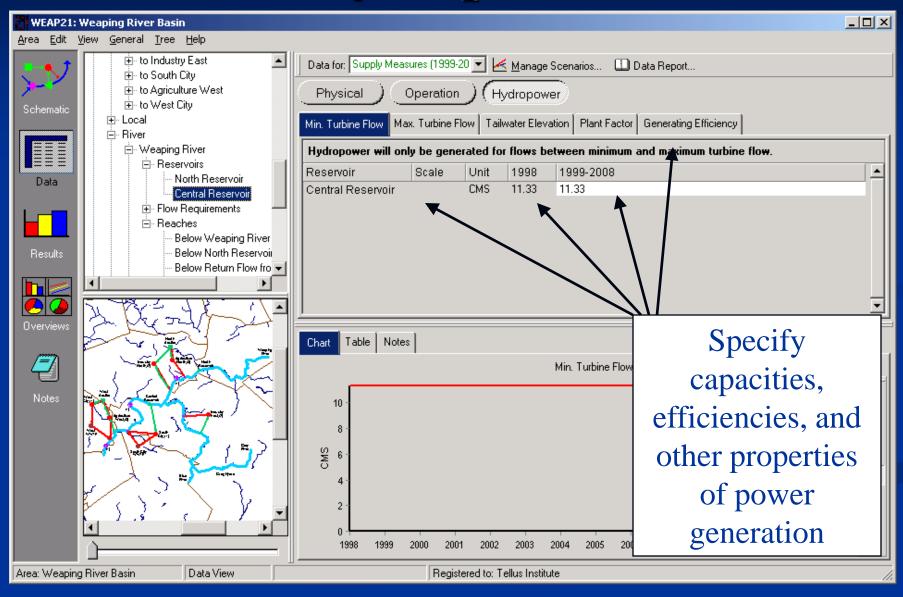
### **Exercise – Reservoirs and Power Production**

- Modeling Reservoirs
- Adding Hydropower Computation

# Reservoir Operations



# Hydropower



### **Exercise – Reservoirs and Power Production**

Switch to WEAP