

## HISTORICAL PERIOD

### (0) COMPILATION AND STATISTICAL ANALYSIS OF DATA LONG MONTHLY HISTORICAL SERIES OF P, T & S)

BIAS OF SERIES → CORRECTION NEEDED?

**HISTORICAL SERIES** (P & T)  
CONTROL SIMULATION  
SERIES (RCMs)

**HISTORICAL  
SERIES** (S)

### (1) CORRECTION OF HISTORICAL CLIMATIC SCENARIOS

CORRECTION APPROACH / TECHNIQUE  
(BIAS CORRECTION / QUANTILE MAPPING)

TRANSFORMATION FUNCTION

CORRECTED CONTROL (P & T)  
SIMULATION SERIES (RCMs)

### (2) MODELLING FRAMEWORK TO PROPAGATE CLIMATIC SCENARIOS

RAINFALL-RUNOFF MODEL  
- CALIBRATION (HISTORICAL DATA)  
- PROPAGATION HISTORICAL AND RCM SIMULATIONS

**HISTORICAL SERIES** (S)  
CONTROL SIMULATION SERIES (RCMs)  
CORRECTED CONTROL SIMULATION SERIES (RCMs)

### (3) CLASSIFICATION OF RCMs

METEOROLOGICAL BASIC AND DROUGHTS  
HYDROLOGICAL STATISTICAL ANALYSIS

## FUTURE PERIOD

FUTURE SIMULATION  
SERIES (RCMs) (P & T)

### (4) GENERATION OF LOCAL FUTURE CLIMATE SCENARIOS FOR EACH RCM

GENERATION OF FUTURE CLIMATE  
SCENARIOS FOR EACH RCM  
(P & T)

GENERATION OF FUTURE SCENARIOS  
PROPAGATION OF FUTURE  
CLIMATE SCENARIOS (S)

(5) ANALYSIS OF RESULTS  
(BASIC AND DROUGHTS)  
METEOROLOGICAL  
HYDROLOGICAL  
**HISTORICAL VS FUTURE**

INDIVIDUAL  
PROJECTIONS  
OR ENSEMBLES

P: PRECIPITATION  
T: TEMPERATURE  
S: STREAMFLOW  
RCM: REGIONAL CLIMATE MODEL