



Activity of ARPA Umbria in water monitoring and evaluation

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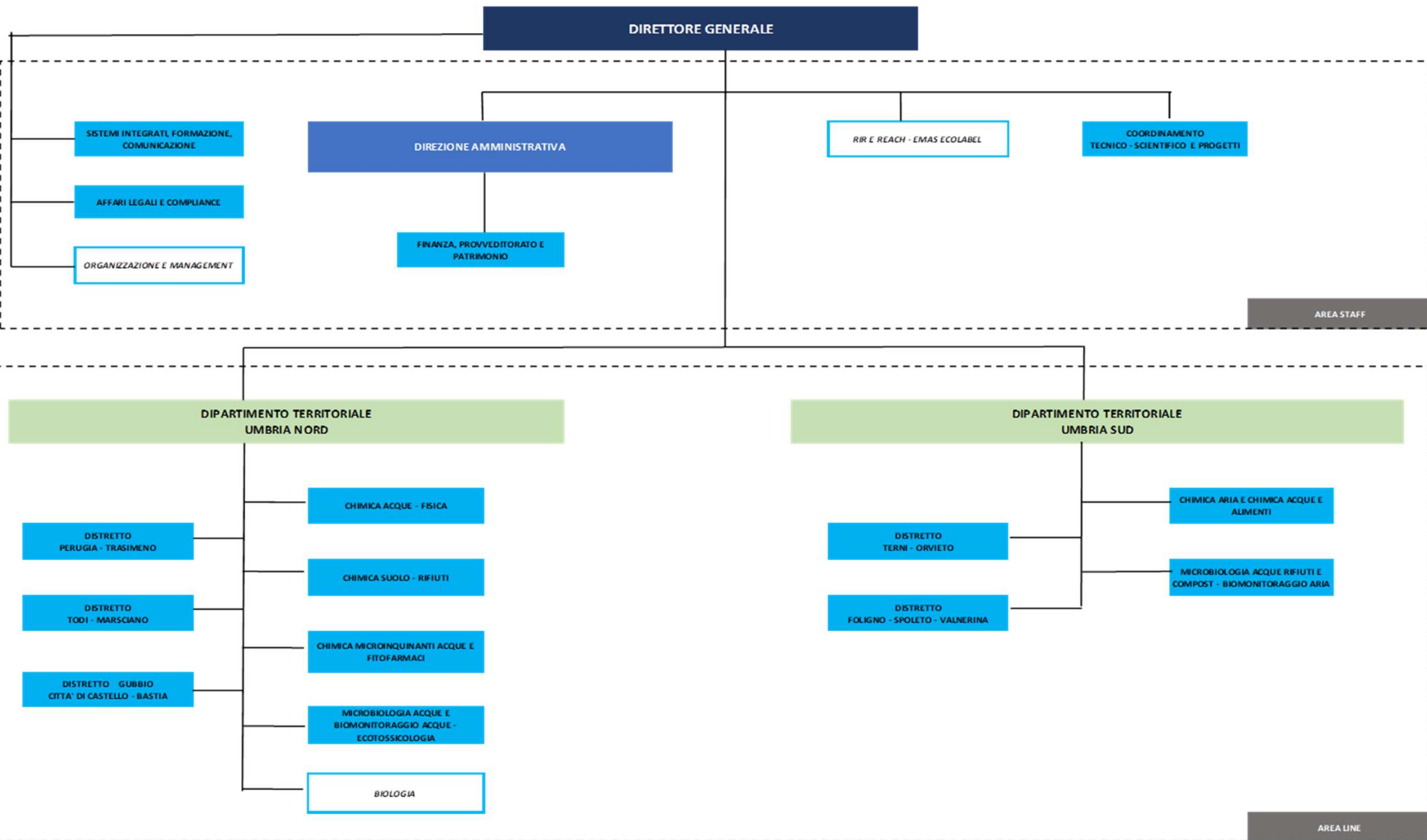
Perugia – July 23, 2024



Umbria & Italy

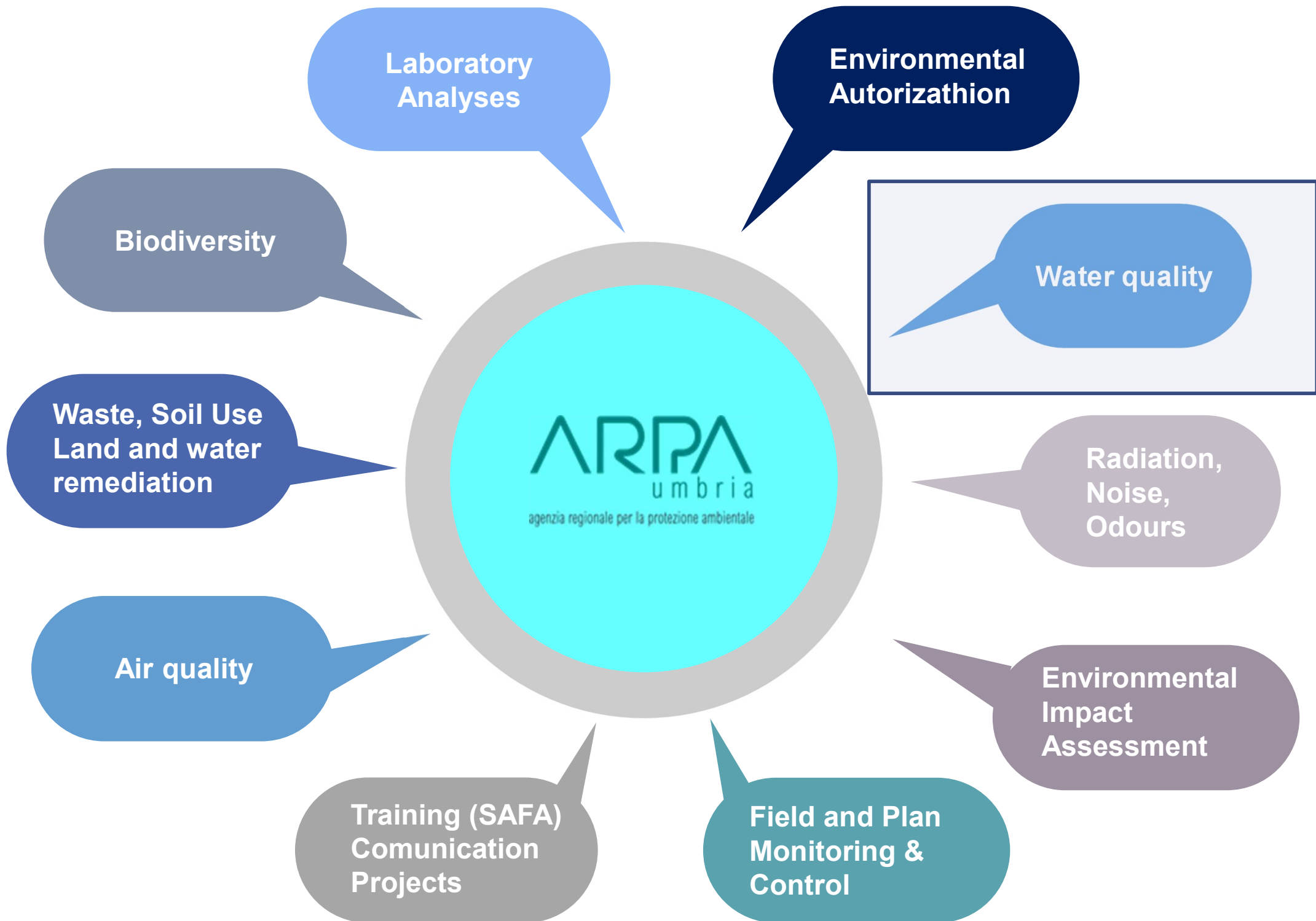
8,400 km²

900,000 inhabitants



LEGENDA:

- DIP** DIPARTIMENTO
- DIRIGENZA** STRUTTURA SEMPLICE
- DIREZIONE** STRUTTURA COMPLESSA
- DIRIGENZA** INCARICO PROFESSIONALE



Laboratory Analyses

Environmental Autorizathion

Water quality

Radiation, Noise, Odours

Environmental Impact Assessment

Field and Plan Monitoring & Control

Training (SAFA) Communication Projects

Air quality

Waste, Soil Use Land and water remediation

Biodiversity

WATER Monitoring and control

Institutional framework

21 Regional Agencies



National System (SNPA)



Environment Ministry



European Union



UNIONE EUROPEA



SNPA & ENVIRONMENTAL AGENCIES

Sistema Nazionale per la Protezione dell'Ambiente

ISPRA
Istituto Superiore per la Protezione e la Ricerca Ambientale

AssoARPA
Agenzie ambientali

National Law N. 132/2016

- **ISPRA:** National Institute
- **19 ARPA:** Regional Agencies
- **2 APPA:** Provincial Agencies

MAIN ACTIVITIES

Design of regional monitoring stations/points

Planning of sampling campaign

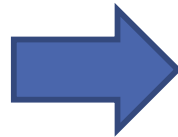
Laboratory analysis

Data analysis: Chemical, ecological, nitrates, pesticides, herbicides, Drinking and Bathing use, Waste water

Data communication



Organization



CTSP (Cingolani)
& Districts
(Massei)

- **Regional Surface water (rivers and lakes) and groundwater monitoring: sampling, data analysis and evaluation**

CTSP (Nucci -
Stranieri)

- **Regional Network for continuous monitoring of water quality and quantity**

(Lab Peirone)

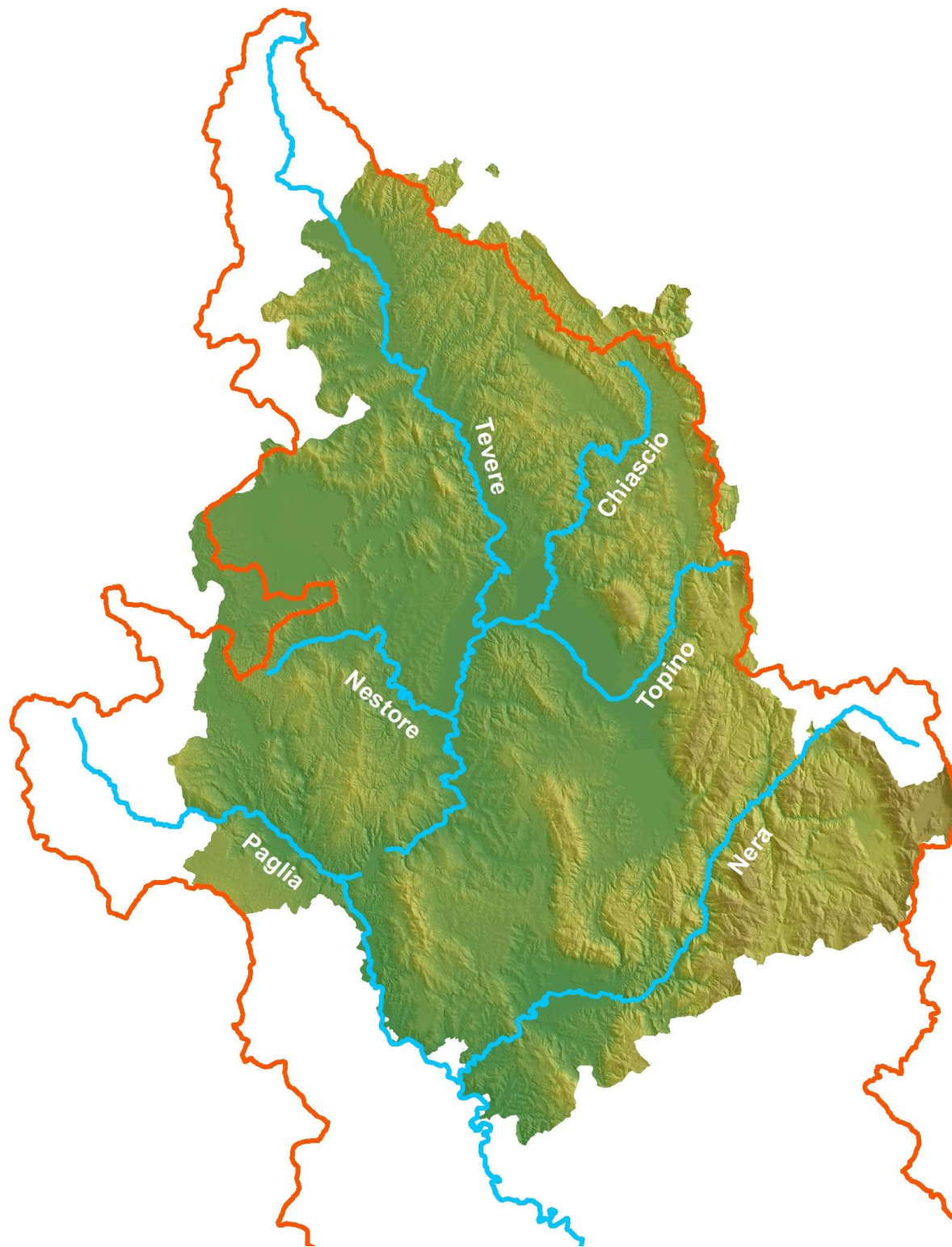
- **ARPA Laboratory (Perugia and Terni) for water analysis and reporting**

CTSP (Crea)

- **Information system for data mapping, reporting and communication**

MAIN RIVERS IN UMBRIA

(SURFACE
WATER)



**SURFACE
WATER
(INCLUDING
LAKES)**





Surface Water – Basins

Ground Water in Umbria

- ❖ **43 ground waterbodies**
 - 9 nelle Alluvioni delle Depressioni Quaternarie (DQ)
 - 7 nelle Alluvioni Vallive (AV)
 - 11 negli Acquiferi Locali (LOC)
 - 15 nei Calcari (CA)
 - 1 nelle Vulcaniti (VU)

