



THE ROLE ARPA PIEMONTE IN ENVIRONMENTAL PROTECTION

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Managing Director of Arpa Piemonte



Arpa Piemonte



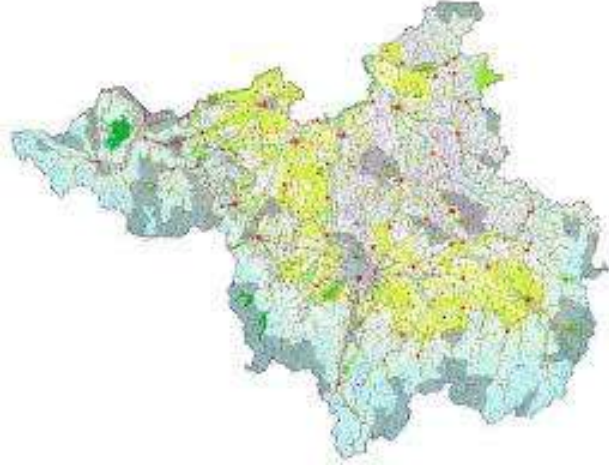
Agency's headquarter in Torino – via Pio VII 9

N. 4 Territorial Departments (NW, NE, SE, SW)

N. 4 Thematic Departments (Physical and Technological Risks, Natural and Environmental Risks, Environmental Assessment, Technical Coordination and ICT)

973 EMPLOYERS

**Environmental monitoring for a territory
where live 4.400.000 inhabitants in 1181
municipalities**





ARPA Piemonte (Agenzia Regionale per la Protezione Ambientale del Piemonte – Regional Environmental Protection Agency in Piedmont) is a public body with independent status for administrative, juridical, technical, asset and accounting management

Arpa Piemonte is a member of a network of 21 Regional Environmental Protection Agencies managed by Ispra (Istituto Superiore per la Ricerca e la Protezione Ambientale - Institute for Environmental Protection and Research) in Rome.

The main role is protection of people from the risk related to exposure to chemical, biological and physical agents.



TASKS OF THE AGENCY

ISSUES

AIR QUALITY

WATER QUALITY (SURFACE WATER GROUNDWATER)

WASTES

ENERGY EFFICIENCY

ASBESTOS

RADIOACTIVITY

ELECTROMAGNETIC POLLUTION

NOISE POLLUTION

WEATHER FORECASTS

ACTIVITIES

LABORATORY ANALYSIS

MESUREMENTS SURVEYS

INSPECTION CONTROLS

CALCULATION MODELS

ADVICE EXPRESSION

MONITORING NETWORKS

EPIDEMIOLOGICAL STUDIES

ENVIRONMENTAL EDUCATION AND
COMMUNICATION



DATA ON ARPA ACTIVITIES 2018

77046 SAMPLES ANALYZED IN LABORATORIES

10374 SITE INSPECTIONS

13142 TECHNICAL REPORTS AND ADVICES



Main activities of ARPA Piemonte in electromagnetic field protection

- Measurements of electromagnetic fields for compliance with standard limits (broad band and narrow band instrumental chains)
- Theoretical evaluation of electromagnetic fields emitted by sources to be installed on regional areas (non occupational exposures)
- Managing of a regional register of emf sources by a data base sources (non occupational exposures)
- Generation of standard fields in metrological laboratory for calibration of small antennas and broad band meters (national calibration service accredited laboratory)



THE MAIN DRIVING FACTORS FOR HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

Total length of power transmission lines crossing the territory

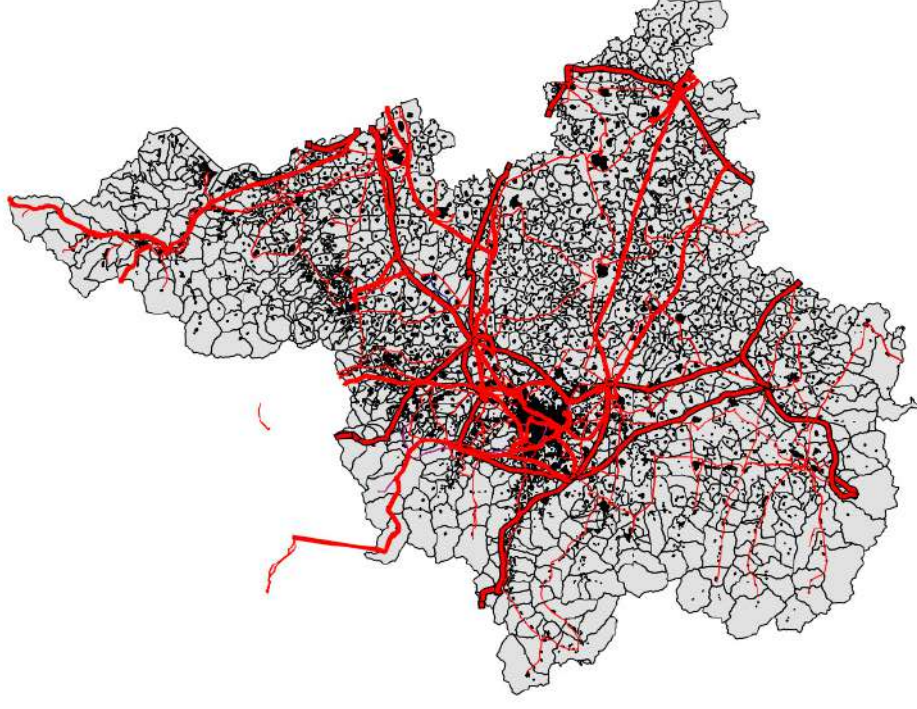
Total number of emitting antennas for telecommunication installed in the territory



HIGH VOLTAGE LINES CROSSING PIEMONTE REGION (132 kV, 220 kV, 380 kV)

Region Area 25400 km²

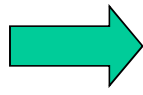
Total length of high voltage lines
crossing Piemonte region
~ 5600 km



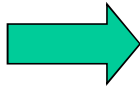


TELECOMMUNICATION ANTENNAS

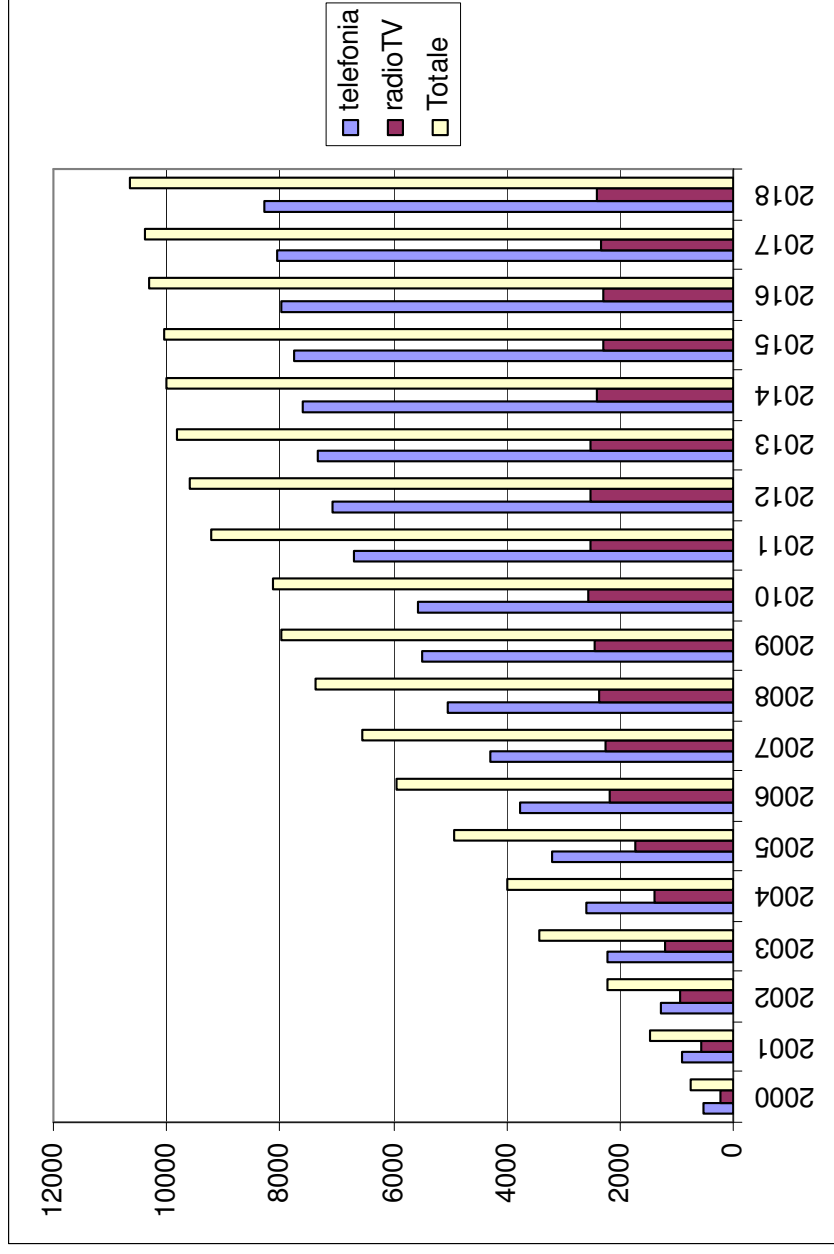
Technological development



Rapid increase of the number of antennas



Higher exposure levels



NUMBER OF ANTENNAS WILL INCREASE FOR THE NEW TECHNOLOGY 5G



An important task for Arpa Piemonte is the promotion and development of applied research activities on pollution agents

COOPERATION WITH BEIJING BEE (BUREAU OF ECOLOGY AND ENVIRONMENT)
IS AN IMPORTANT OPPORTUNITY FOR SHARING OUR SKILLS AND FOR
DEVELOPING NEW METHODS FOR MEASURING AND EVALUATING THE HUMAN
RADIATION EXPOSURE



WELCOME IN TORINO

