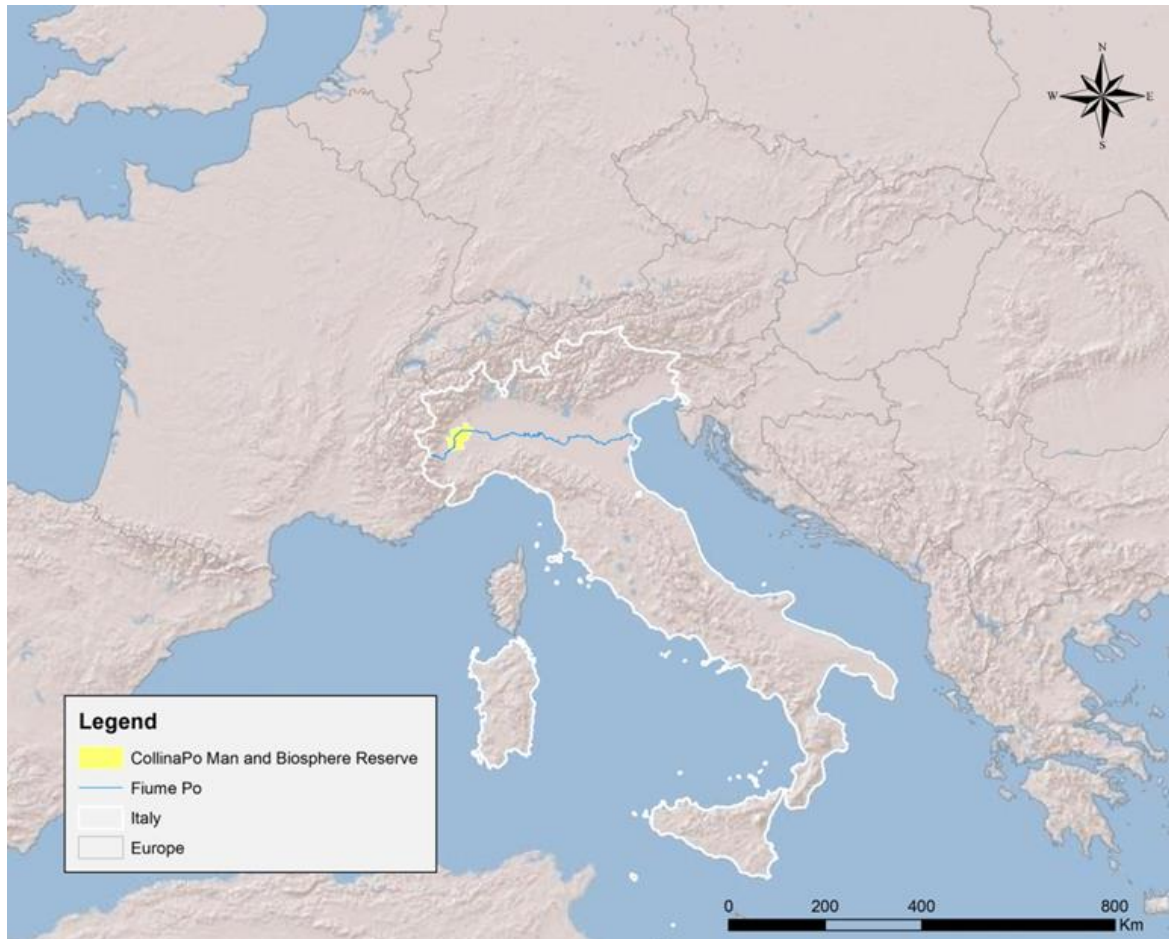


## Regional Meeting on the role of Biosphere Reserves in the management and sustainable development of large river basins



# Where is the Reserve?



# Mab Reserve in the Po river basin territory



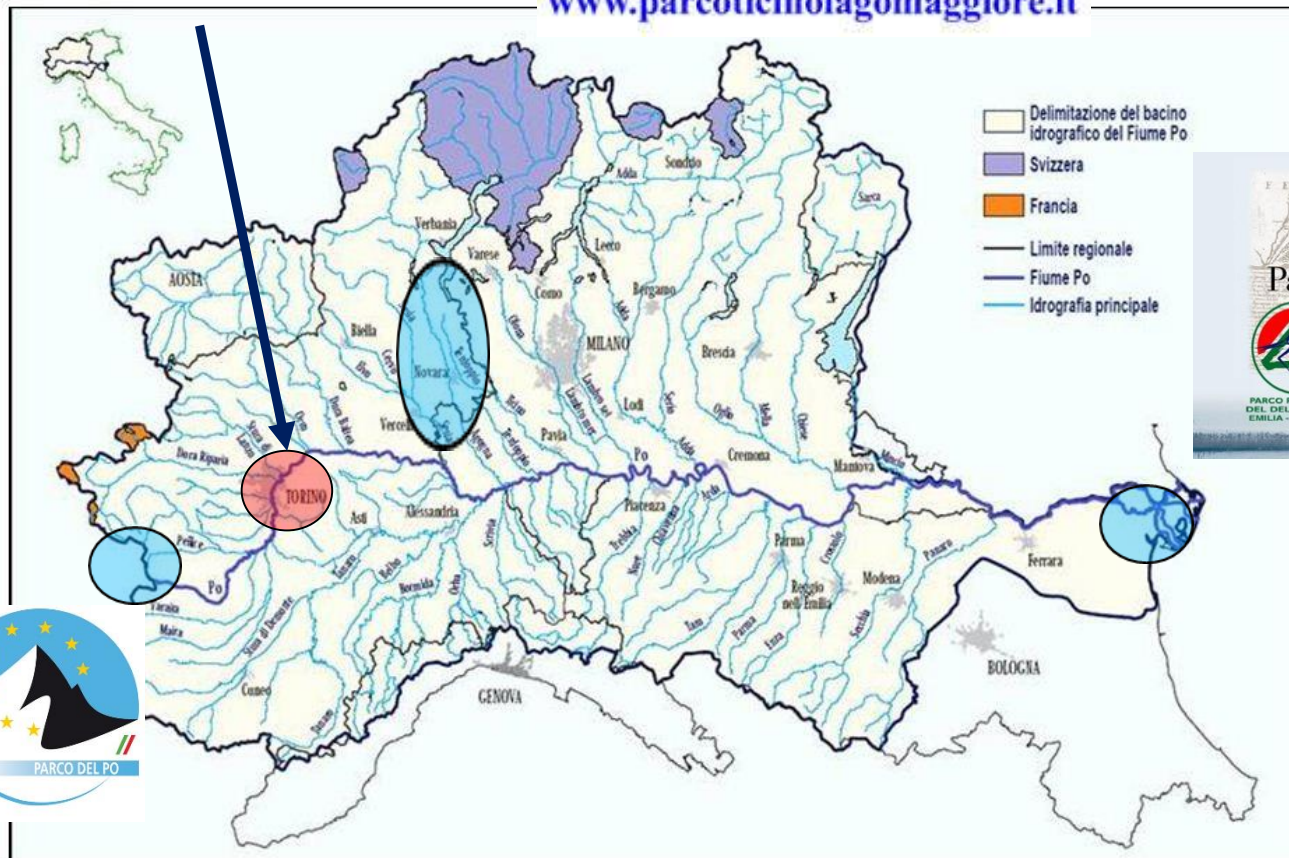
PARCO TICINO  
LAGO MAGGIORE



Riserva della Biosfera



[www.parcoticinolagomaggiore.it](http://www.parcoticinolagomaggiore.it)



Il bacino idrografico del fiume Po

# The partners in the RB CollinaPo project

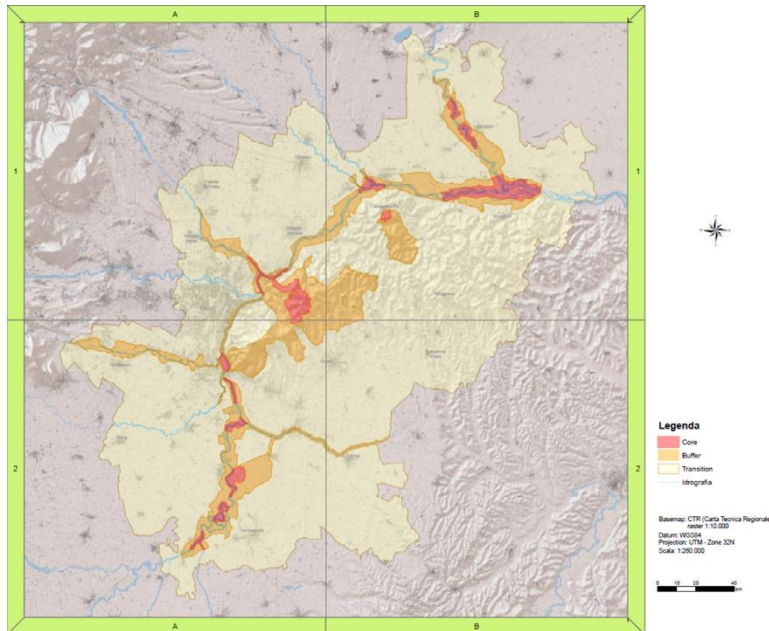


Aree protette  
Po e Collina Torinese

Our MAB application was launched with the technical support of SITI Institute and Iren Group company. The latter supplies electric services to the Turin metropolitan area.



# How is the zonization?



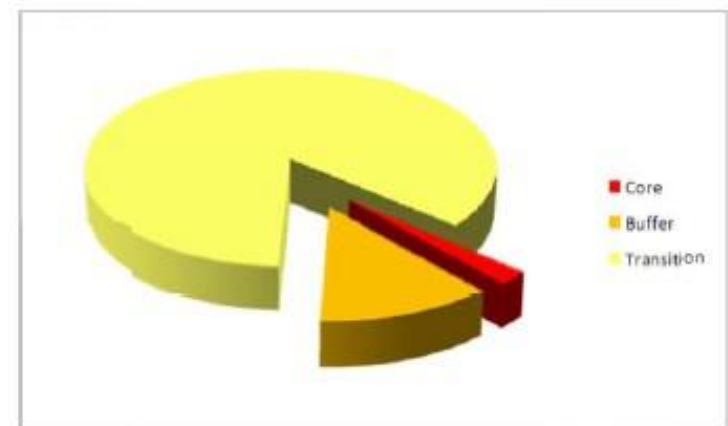
6 tributaries network + Po river + Turin hillside:

**core area** composed by **14 natural reserves**, connected with **buffer area** along the river and its hill territory &

**transition area** with Turin metropolitan area (1.470.000 KMq)

The candidate Biosphere Reserve occupies a total surface area of 171,233.85 hectares, subdivided as follows.

	Terrestrial	Marine (if applicable)	Total
7.1 Area of Core zone(s):	3,853.05 ha	N.A.	3,853.05 ha
7.2 Area of Buffer Zone(s):	21,161.45 ha	N.A.	21,161.45 ha
7.3 Area of Transition Area(s):	146,219.46 ha	N.A.	146,219.46 ha
<b>TOTAL:</b>	<b>171,233.85 ha</b>	<b>N.A.</b>	<b>171,233.85 ha</b>

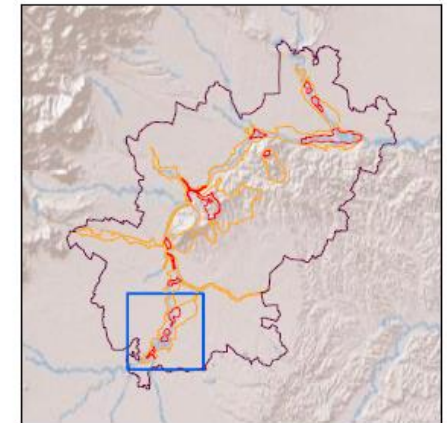
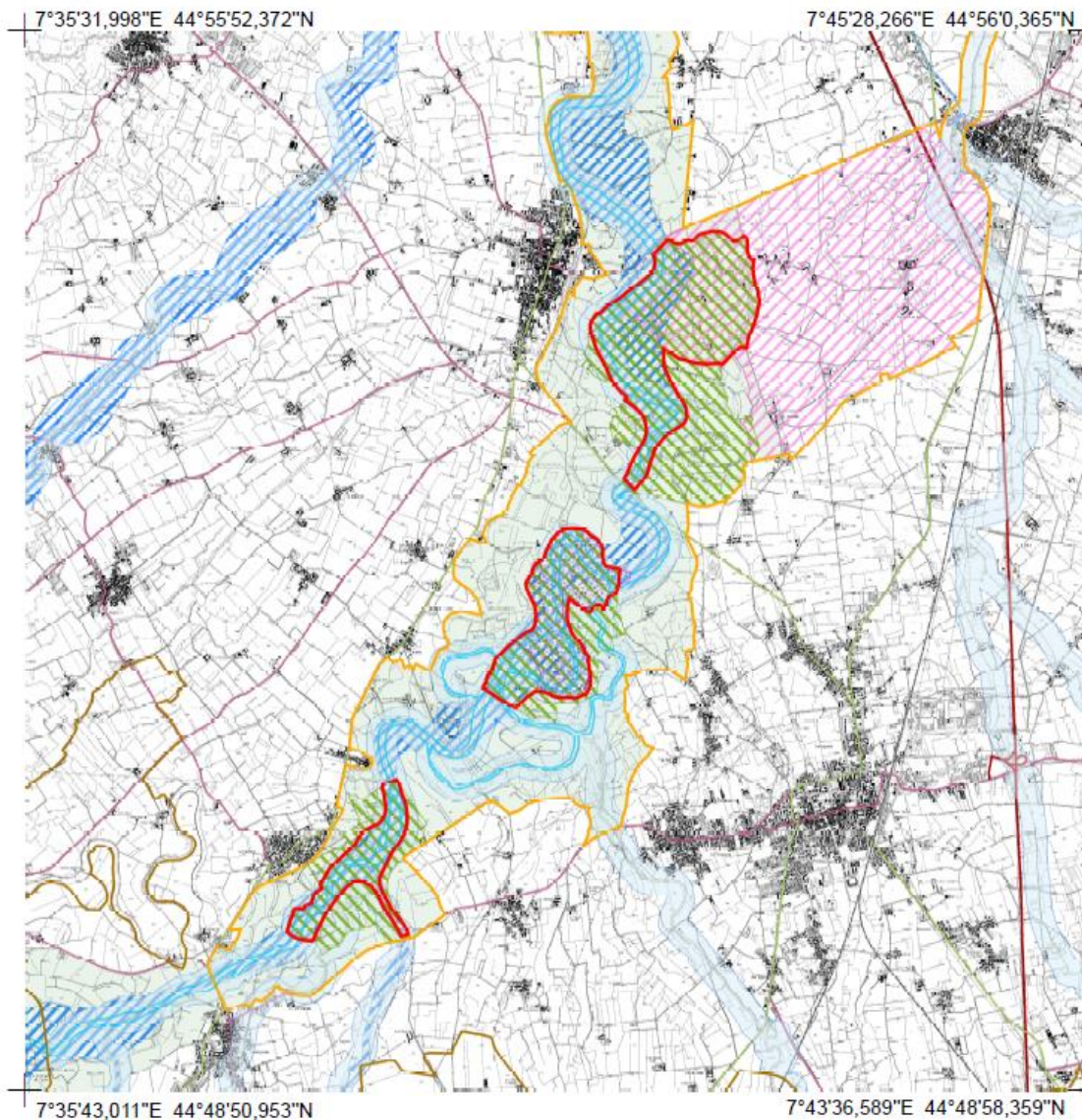






**COLLINAPO. A short description in 5 steps ...**

# Agricultural and riverains territories in the south Turin area



## Legenda

- Core
- Buffer
- Transition
- Fiume Po
- Aree Protette del Po e della Collina Torinese
- Decreto Legislativo 42/2004**
- Riserve regionali (art. 142)
- Fasce fiumi, torrenti e corsi d'acqua (art. 142)
- Galassini - aree protette da specifiche disposizioni (art. 157)
- Piano stralcio per l'Assetto Idrogeologico (PAI)**
- Fascia A
- Zone di prevalente interesse naturalistico - Piano d'Area del Po**
- N1
- Infrastrutture**
- Ferrovia
- Autostrada
- Strada Statale
- Strada Provinciale

Datum: WGS84  
Projection: UTM - Zone 32N  
Scala: 1:70.000



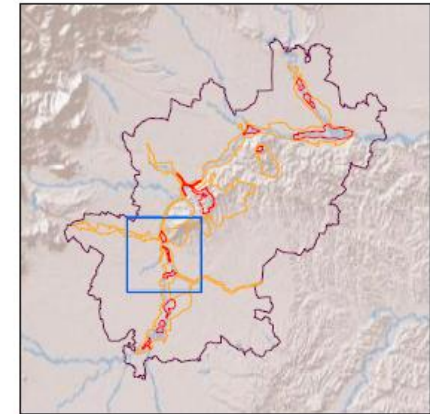
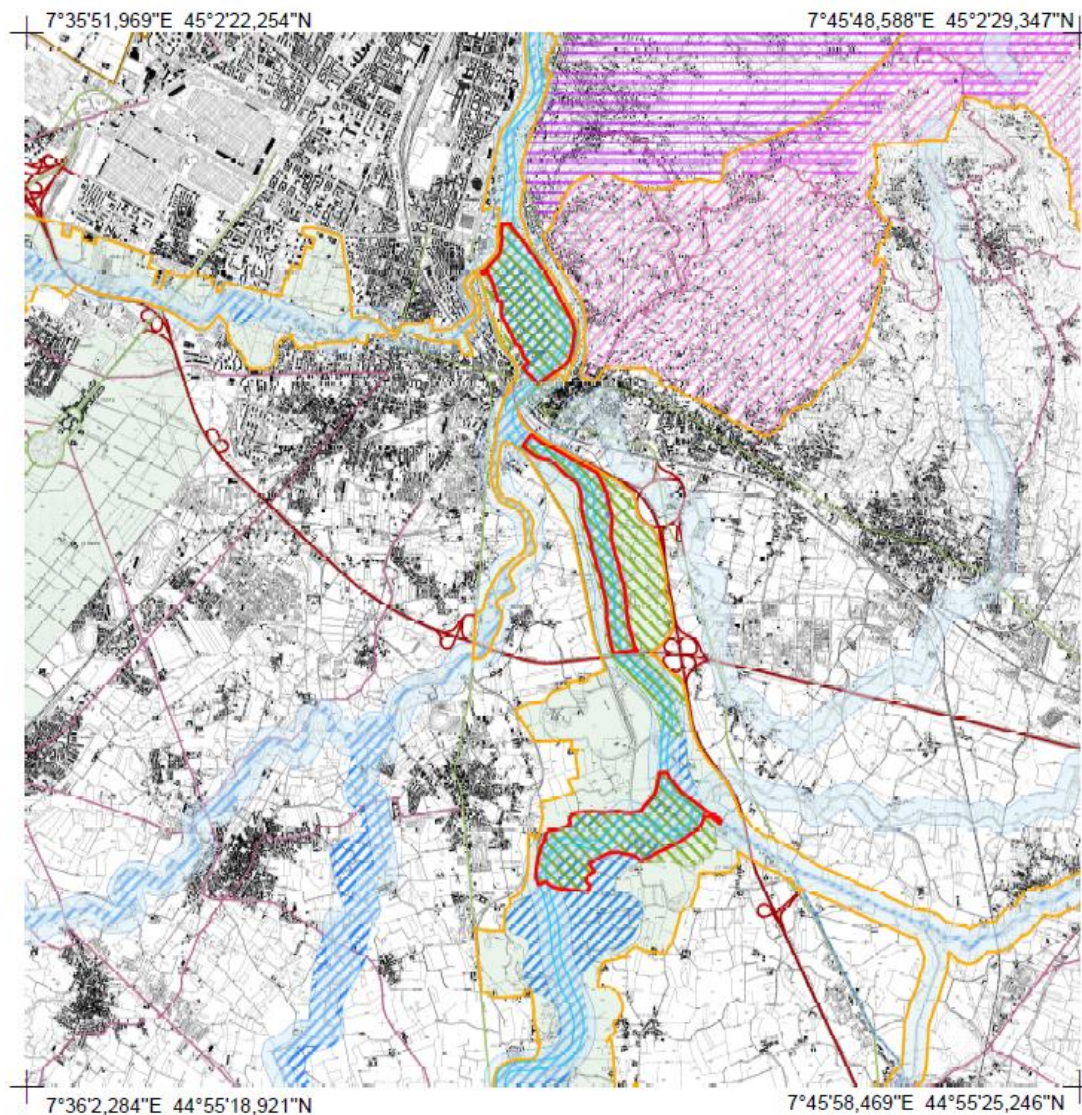


# Recovered Sand Pits and Quarries environment





# Ecological river hallways –Turin South Area



## Legenda

- Core
- Buffer
- Transition
- Fiume Po
- Aree Protette del Po e della Collina Torinese
- Decreto Legislativo 42/2004**
  - Riserve regionali (art. 142)
  - Fasce fiumi, torrenti e corsi d'acqua (art. 142)
  - Gallassini - aree protette da specifiche disposizioni (art. 157)
  - aree ex-1497/1939 - aree protette da specifiche disposizioni (art. 157)
- Piano stralcio per l'Assetto Idrogeologico (PAI)**
  - Fascia A
- Zone di prevalente interesse naturalistico - Piano d'Area del Po**
  - N1
- Infrastrutture**
  - Ferrovia
  - Autostrada
  - Strada Statale
  - Strada Provinciale

Datum: WGS84  
Projection: UTM - Zone 32N  
Scala: 1:70.000

0 500 1.000 2.000  
m



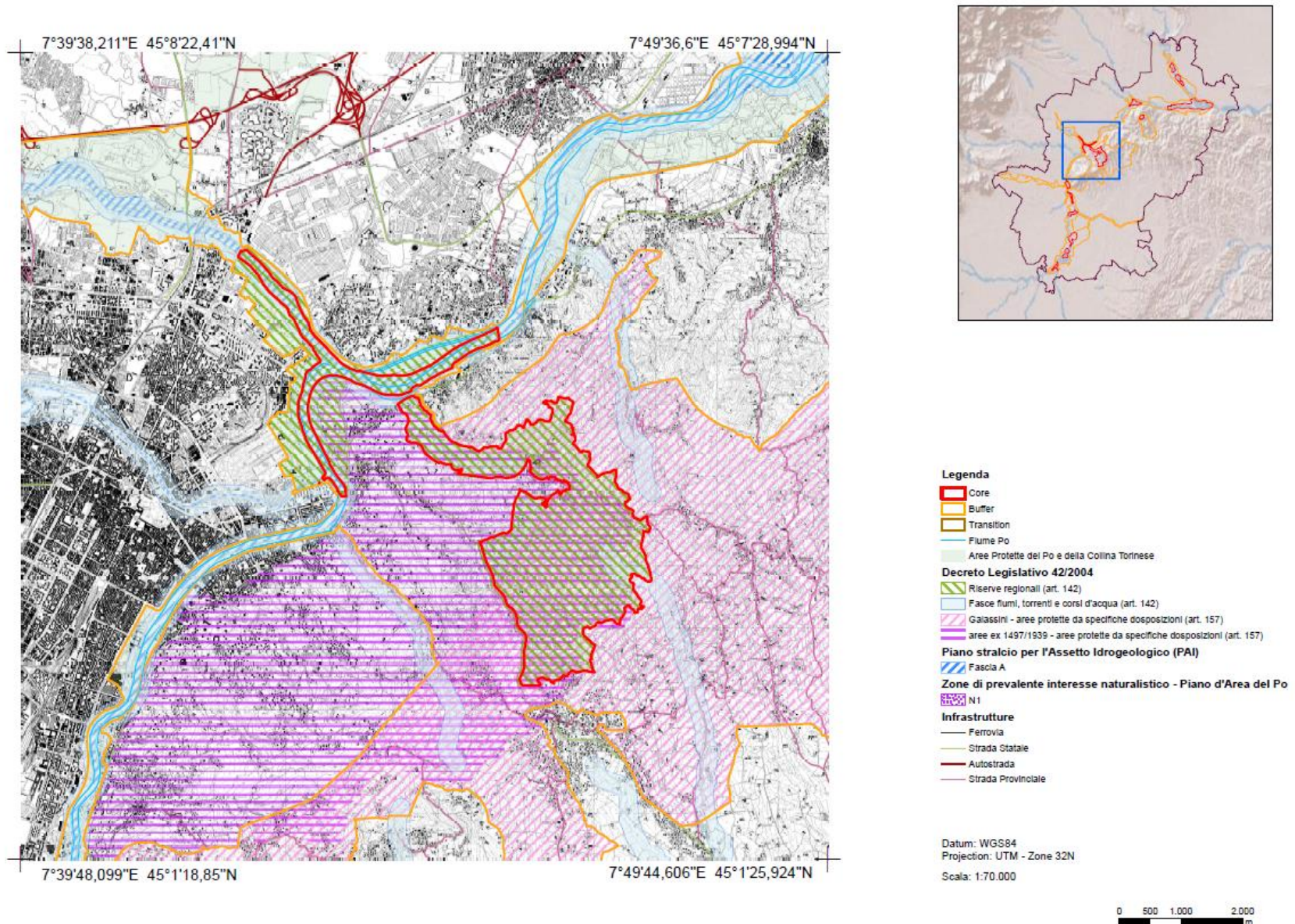
# The Po river along Moncalieri Village and its hillside





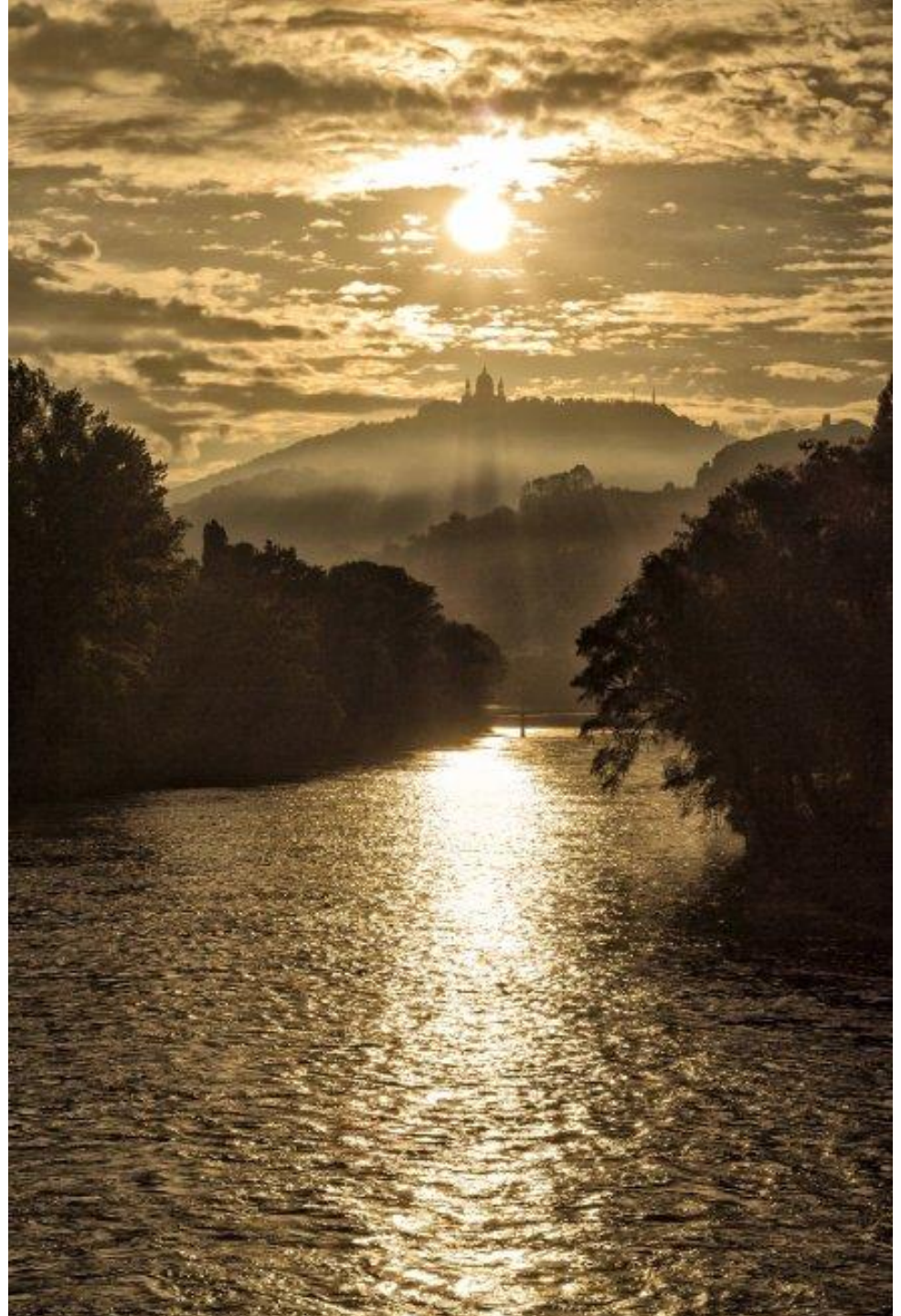
# Hilly areas and the Po river in close ecological connection

## - Turin North Area



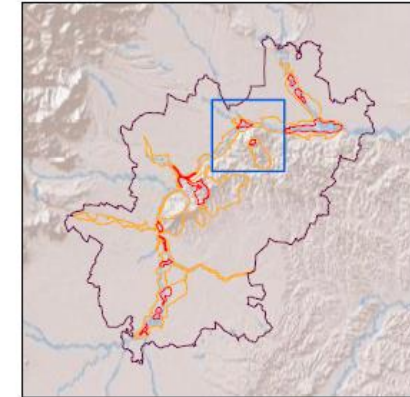
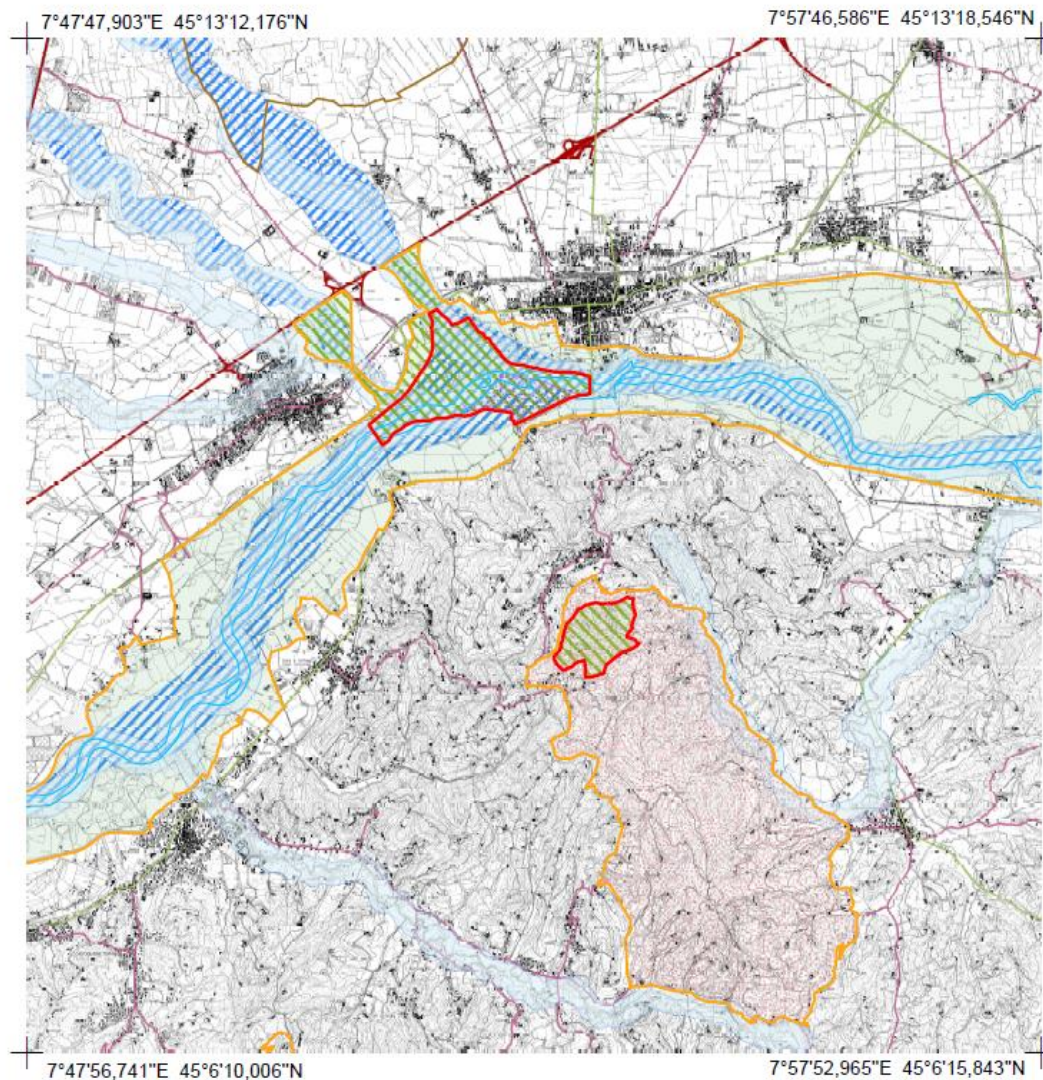


The Po river, and, in the background, the hill dominated by the historical Savoy Church of Superga's Basilica.





# Hilly areas and Po river in open ecological connection – Chivasso side



## Legenda

- Core
- Buffer
- Transition
- Fiume Po
- Aree Protette del Po e della Collina Torinese
- Decreto Legislativo 42/2004**
- Riserve regionali (art. 142)
- Fasce fiumi, torrenti e corsi d'acqua (art. 142)
- Piano stralcio per l'Assetto Idrogeologico (PAI)**
- Fascia A
- Zone di prevalente interesse naturalistico - Piano d'Area del Po**
- N1
- Rete Natura 2000**
- SIC
- Infrastrutture**
- Ferrovia
- Autostrada
- Strada Statale
- Strada Provinciale

Datum: WGS84  
Projection: UTM - Zone 32N  
Scala: 1:70.000

0 500 1.000 2.000  
m

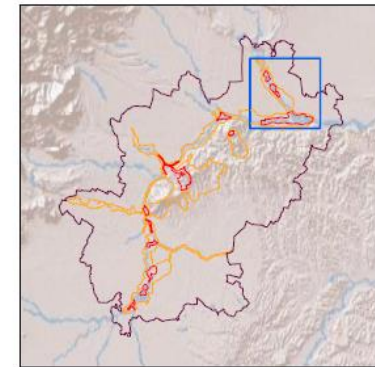
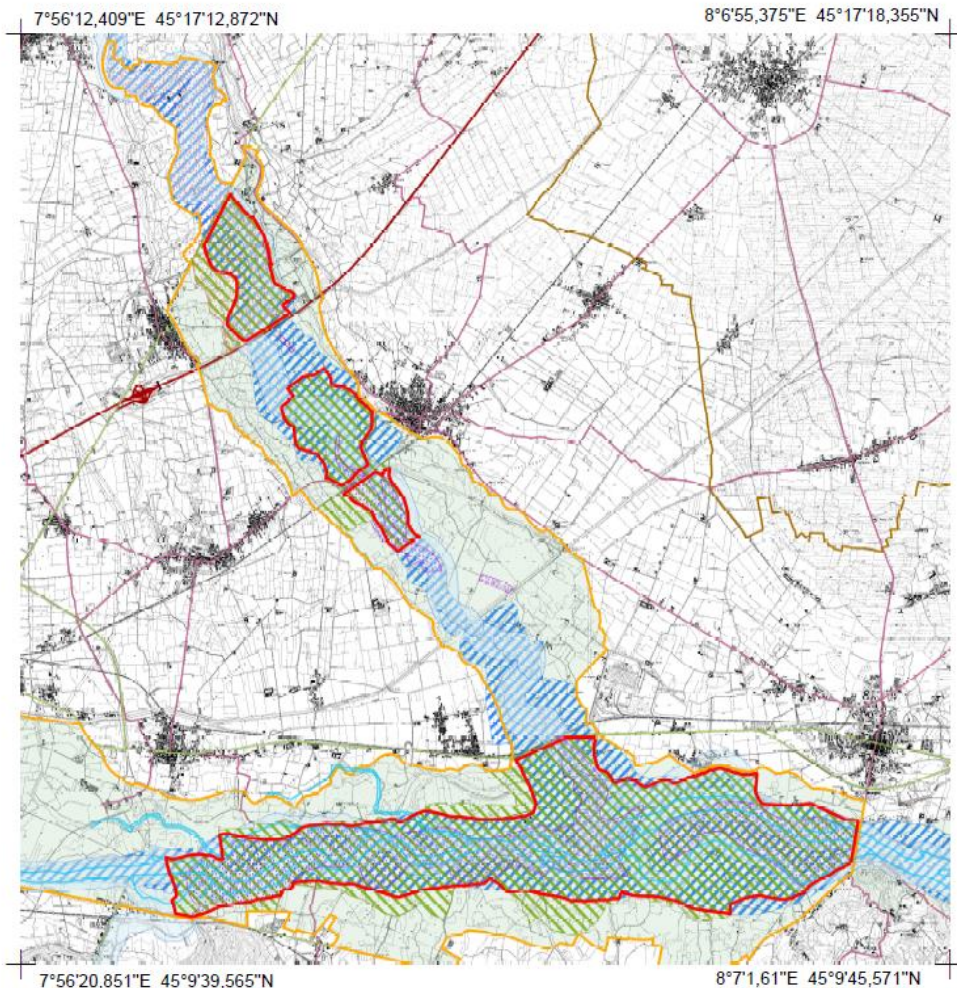


The Cavour Canal (1866) generated from the Po river.  
The most interesting water engineering work after Italy's  
Unification.





# The confluence of the Po river and the Dora Baltea tributary that collects water from the Mont Blanc Massif Glacier



## Legenda

- Core
- Buffer
- Transition
- Fiume Po
- Aree Protette del Po e della Collina Torinese
- Decreto Legislativo 42/2004
- Riserve regionali (art. 142)
- Fasce fiumi, torrenti e corsi d'acqua (art. 142)
- Piano stralcio per l'Assetto Idrogeologico (PAI)
- Fascia A
- Zone di prevalente interesse naturalistico - Piano d'Area del Po
- N1
- Rete Natura 2000
- SIC
- Infrastrutture
- Ferrovia
- Autostrada
- Strada Statale
- Strada Provinciale

Datum: WGS84  
Projection: UTM - Zone 32N  
Scala: 1:75.000

0 500 1.000 2.000  
m



The extended woods of Verrua Savoy, the Po river, and its historical military fortress.





# COLLINAPO: The territorial networking geo-land brand launched by the regional Park along its protected areas

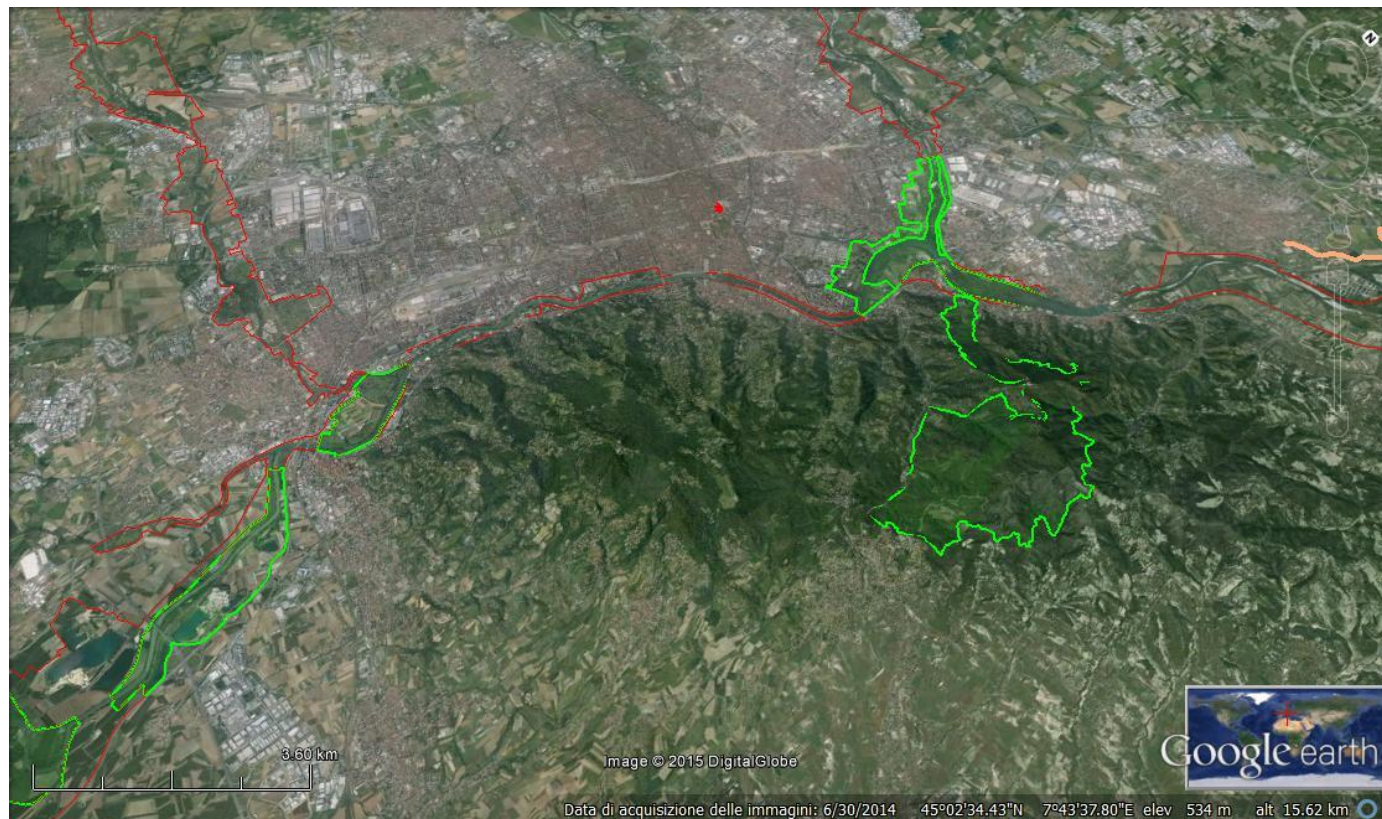


The Reserve Biosphere Areas project started its process thanks to the development of a local territorial marketing brand which involved all the areas and was deposited as the trademark "CollinaPo".

COLLINAPO gradually germinated from the idea of creating a solid alliance among the local communities / Municipalities, in order to facilitate an holistic landscape system, as it is today in the local perception, and implement the consciousness of the strategic importance of biodiversity within the social and economic activities along the Po river and its hills.

# Nature in the urban and periurban landscape: CollinaPo a UrbanRB

Ecological hallways composed by the Po river, its 7 tributary river system and hill chain system with important agricultural activities and rich woods, within the Turin Metropolitan area.





# Fulfillment of the three functions of biosphere Reserves

*Conservation* - contribute to the conservation of landscapes, ecosystems, species and genetic variation

This candidate territory presents two elements of outstanding interest from a naturalistic point of view: the River Po and the Turin Hills. These resources take on even greater value in terms of environmental protection when placed in context with the densely populated surrounding territory in which they lie, characterized by the metropolitan area of Turin, which is home to a large number of businesses and also plays host to strongly growing numbers of tourists.



# Fulfillment of the three functions of biosphere Reserves

*Development* - foster economic and human development which is socio-culturally and ecologically sustainable

The candidate territory is a workshop for trying out and implementing ways of sustainably managing natural and cultural resources.

There are numerous activities and projects in the area which focus closely on the principles of sustainable development, involving environmental awareness and the active participation of dynamic stakeholders.





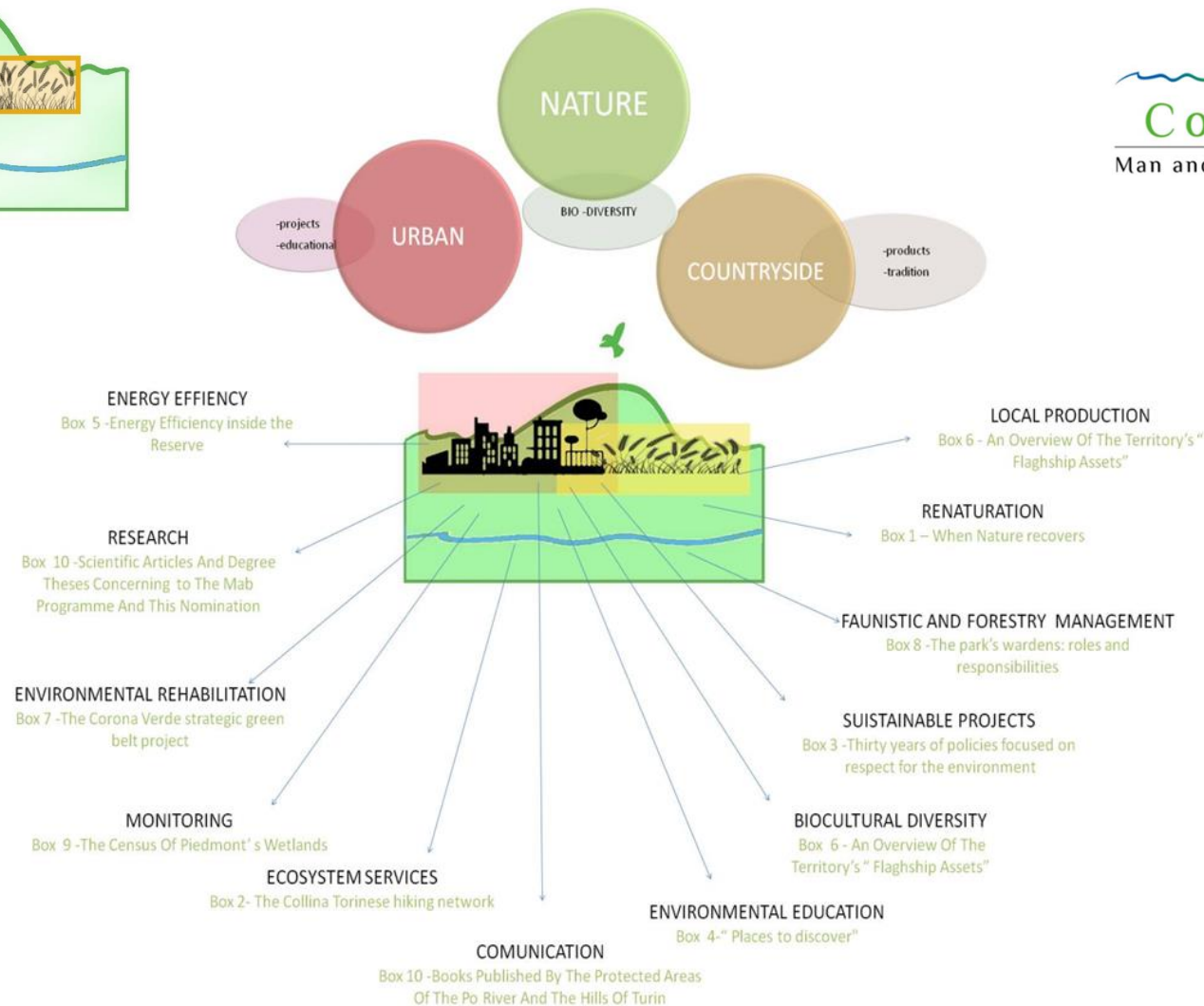
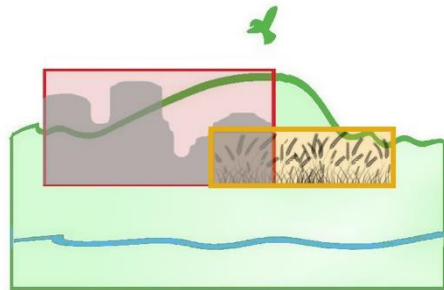
# Fulfillment of the three functions of biosphere Reserves

***Logistic support*** - support for demonstration projects, environmental education and training, research and monitoring related to local, regional, national and global issues of conservation and sustainable development.

The candidate territory comprises over 80 Municipalities, each one characterized by projects and tangible actions aimed at sustainability, and at education and training venues. The presence of Turin alone, with its numerous research and training centres, the University and Turin Polytechnic, public cultural and social platforms on sustainability such as Smart City and Torino Green Mobility Week as well as various entrepreneurs and companies that operate in the field of innovation and sustainable development – all of this could be already sufficient to justify the importance of the candidate territory with regard to logistic support. If we then add the activities pursued by the “Aree Protette del Po e della Collina Torinese” Park which have been promoting training, research and monitoring activities within environmental and natural for years, the picture is complete.



# The concept behind the Nomination





## The concept behind the Nomination

The concept behind the Nomination summarizes the characteristics of the territory and the relationships between them: a natural green area, with its hills and the plain crossed by the river, which is the heart of the candidacy and is characterized by a wide variety of flora and fauna in which urban and cultivated areas intersect and interact.



## The concept behind the Nomination

The study of spaces for interaction between man and nature (such as the re-naturalization of places which have been subjected to man's intervention, the sustainable use of the territory and forestry management) take on crucial importance for this candidacy in demonstrating the biocultural diversity of the candidate territory.







One Reserve,  
many values & assets



# A valuable resource: ecosystem services

Terrestrial ecosystems can be beneficial for human well-being in several different ways, thanks to what are known as “ecosystem services”. They play an essential role in guaranteeing the well-being of residents; some of them, essential for human life, cannot be obtained from substitutes, a condition that makes the need to reverse the decay afflicting natural resources even more pressing.





# A valuable resource: ecosystem services

1. Supporting services
2. Regulation services
3. Habitat services
4. Cultural services

The nominated territory boasts a number of interesting elements relating all ecosystem services.



## Supporting services

Agriculture offers the resident population a certain level of economic development with the production and trade of traditional local products (honey, wine, fruit, vegetables handcraft, etc.). Moreover, urban areas boast a number of parks that act as “green lungs” in cities that are sometimes densely populated, such as Turin.





## Supporting services

In the nominated reserve, agriobiodiversity mainly covers native grape varieties, local fruit varieties such as cherries (Pecetto), Strawberries (San Mauro) and walnuts (Chivasso), vegetables such as peppers (Carmagnola) asparagus (Santena), pulses, small native farmyard birds, rabbits and fish. The specific qualities of these farm products and their tie with the nominated reserve's territory are demonstrated by the many European and national quality assurance labels awarded them (described in the agriculture section).

These certifications particularly concern:

- 1 fish product certified with the PDO – Protected Designation of Origin – European quality assurance label (to date, only two labels of this kind have been awarded);

- 16 wines with the DOC – Controlled Designation of Origin – Italian quality assurance label;

- 58 farm products with the PAT – Traditional Agricultural Products – Italian quality assurance label;

- 5 agricultural Slow Food Presidia.

# 81 local products





# Regulation services

The presence of the over 20 lakes allows the reduction of the effects of floods. Furthermore the water resources of the subsoil and of the river are used for the network of drinking water in the city, while the forest cover ensures absorption of CO<sub>2</sub>.



# Cultural services

As far as cultural ecosystem services are concerned, the river and hills are of enormous **educational and cultural value**, featuring activities and traditions associated with the specific characteristics of these places. Turin has a long known tradition for ensuring **regular cultural platforms** which involves directly and enable inhabitants (junior and senior) to learn and become more aware of the natural landscape heritage and also incentivates edu-entertainment processes through events and contests.





# Cultural services

The **tourism/recreation** function of woods and the river is also important. Game fishing activities guarantee the presence of traditions and associations linked to this sport and offer an opportunity to control it and promote new fishing techniques. Rowing, birdwatching, running, trekking, nordic walking, cycling and horseback riding are also popular. The continued use of sustainable farming practices encourages the economic, social and cultural enhancement of these areas.



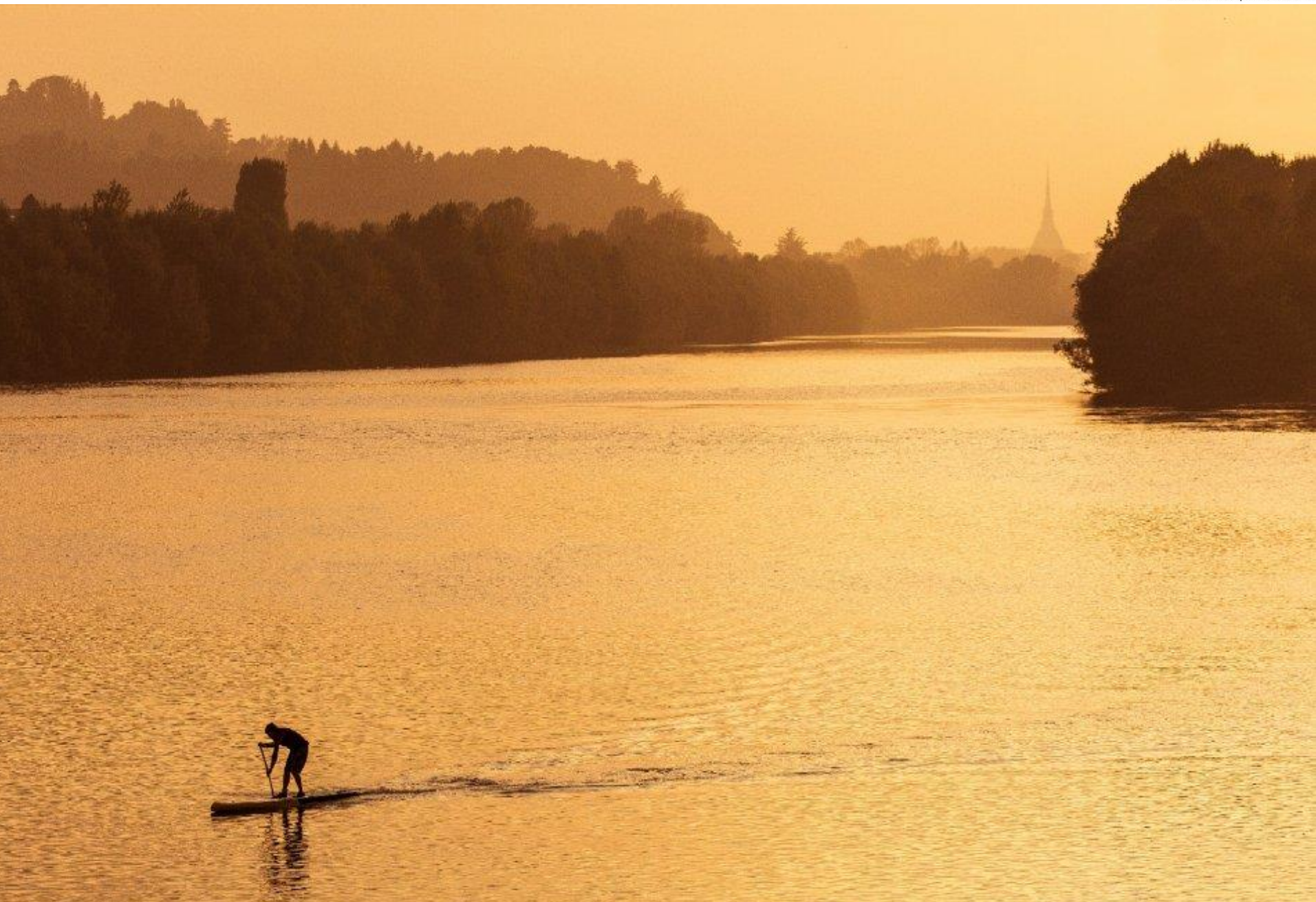
# Cultural services



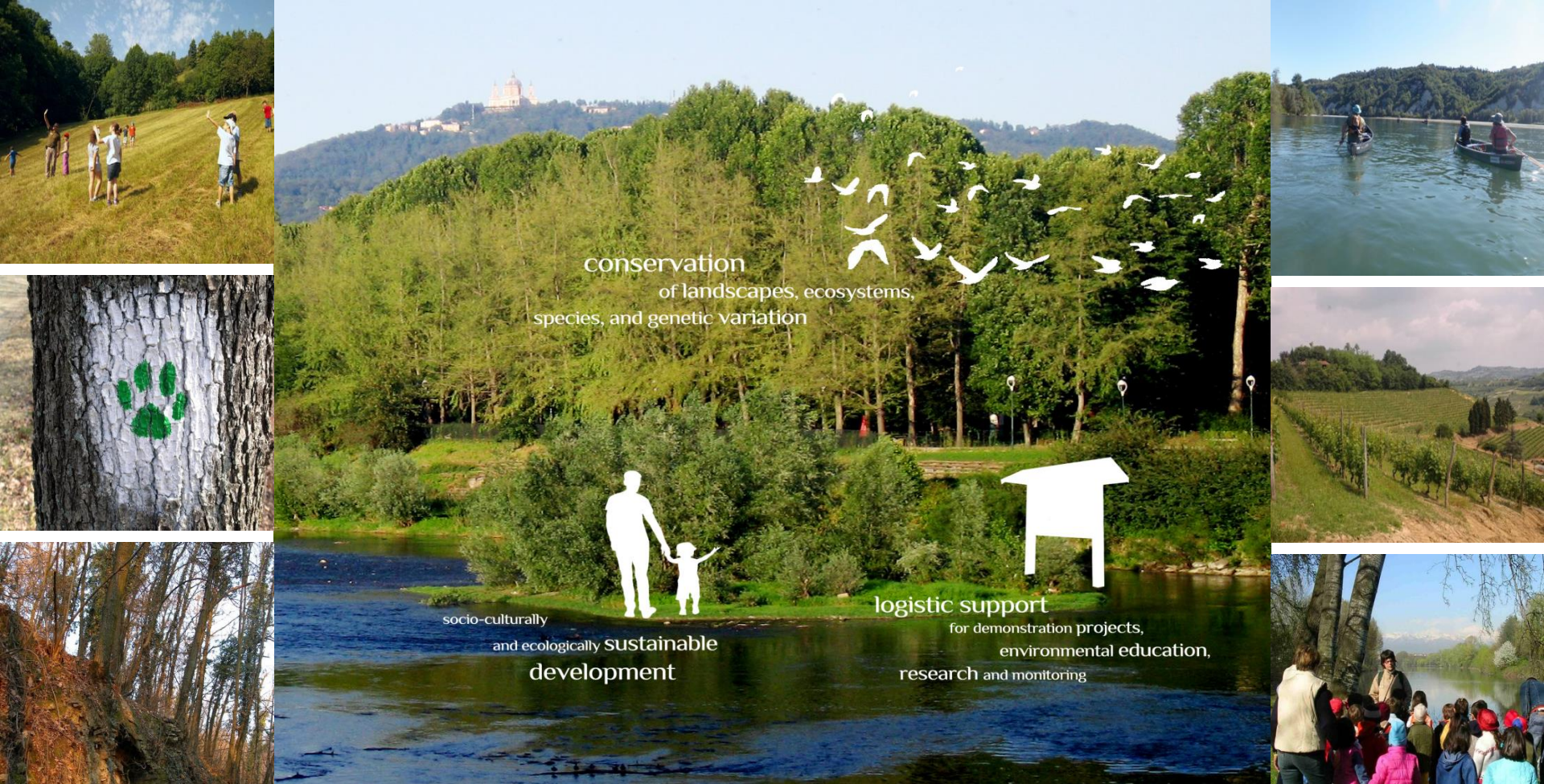
**Events organization** to raise environmental awareness of the community and leave messages to tourists and opinion leaders around the naturalist assets and values of the area - as the **Superga Park Tour** .This social event mixes nature with culture, ethics, landscape, art, photography, music, dance, theatre, sports and wellness.











**Thank you!**