

Natural and cultural heritage in coastal regions

Restoration of the river « La Cagne »

T06 Thematic Workshop

27 october 2022

Cagnes-sur-Mer



Cagnes and the « Côte d'Azur »

construction of the narrative
urbanization & economic shift

1750 «Grand Tour»

an aristocratic winter villegiatura

1763 «Travel through France to Italy» T. Smolett

invention of picturesque and birth of tourism

1863 Train arrives in Cagnes-sur-Mer

last stop of the PLM (Paris-Lyon-Mediterranée)

1887 « Côte d'Azur » S. Liegeard

a select destination from Marseille to Genova

1891-1922 Cagnes-sur-Mer instead of Cagnes

1903 Pierre Auguste Renoir move to Cagnes-sur-Mer

And many others painters, poets, writers...

« the school of Cagnes ! » « Cagnes-Montparnasse »

1978 Autoroute A8 mass tourism and urbanisation

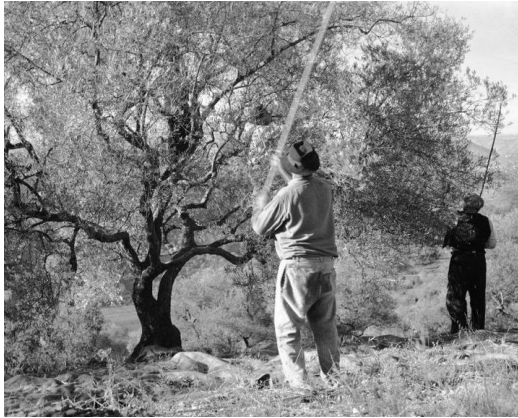
Development of the city

Since 2020 Cagnes-sur-Mer most attractive city of the area

population increase

Sublimation of the landscapes by artists

Material and immaterial cultural heritage



Old medieval village and historical monument : **Grimaldi castle, Notre-Dame de Protection chapel**

The city of painters end of 19th to mid 20th century : **Renoir, Matisse, Bonnard, Smirnoff, Klein, Soutine, Foujita, Mendjizky ...**

Traditional agriculture and fishing in decline to the benefit of a seaside attraction



a **VISION** of Nature in the city : the « Coulée Bleue » since 1995

a political leadership to save a **major ecological corridor** natural & cultural heritage



The river Cagne : 5,5 km from the gorges to the sea

Many issues : natural risks, local agricultural, biodiversity, landscape, well-being ...

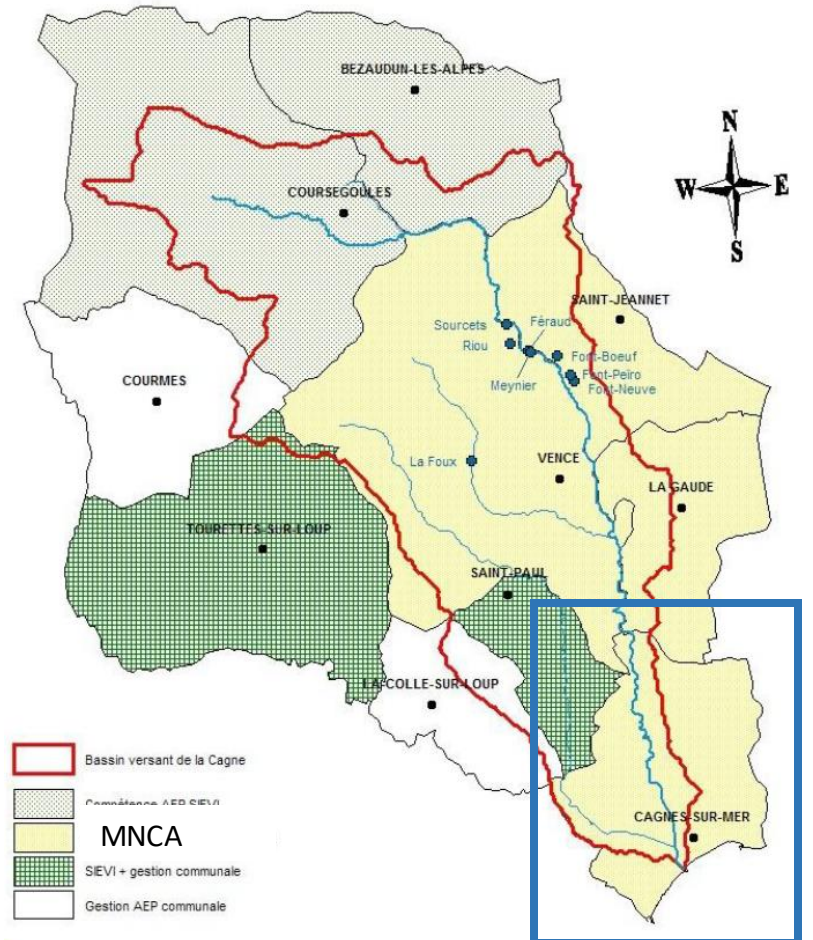
different **SCALES** of the territory

Administrative limits
Public policies



1 795 ha // 17,95 km²
52 669 inhabitants
2 934 inhab./km²
4th city of département

Watershed
Water management

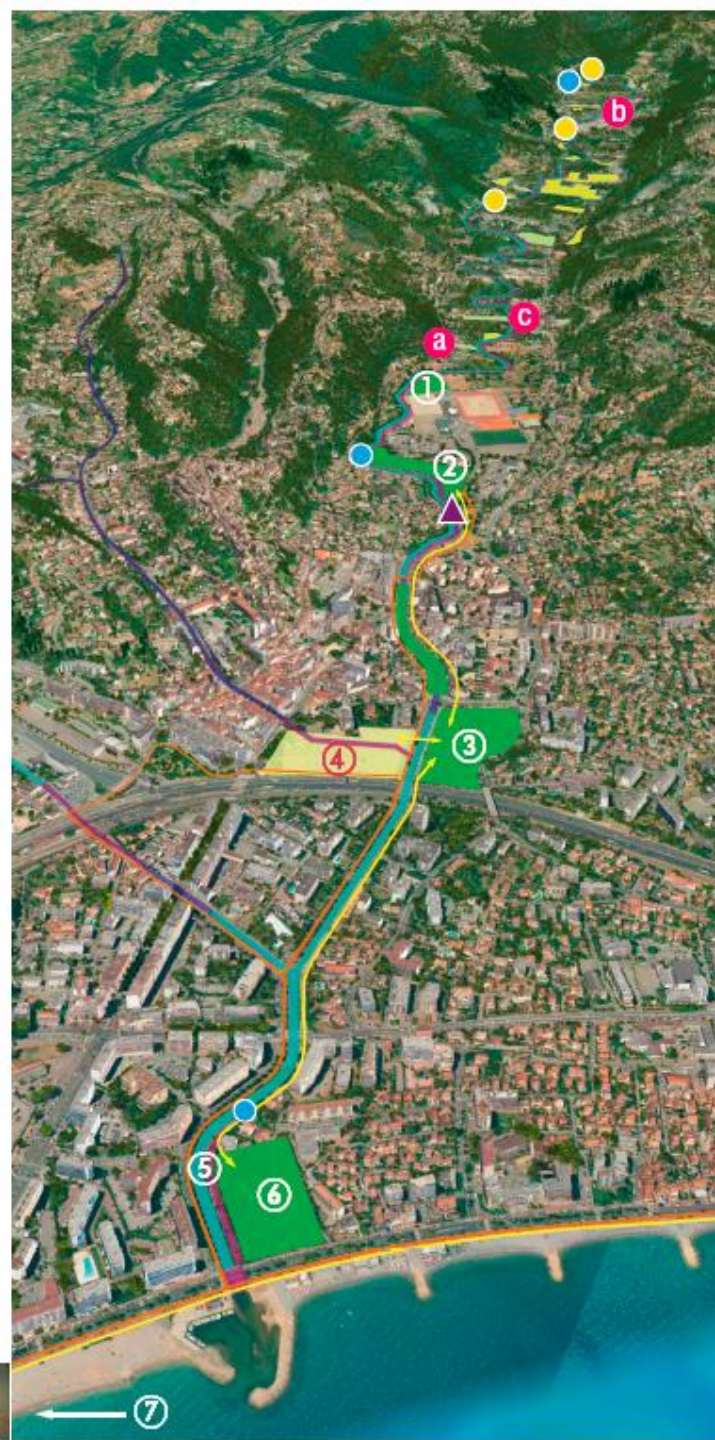


a **FIGHT** against the destruction of the environment, landscapes to save the river & agriculture against mis-use, constructions...1995-2020

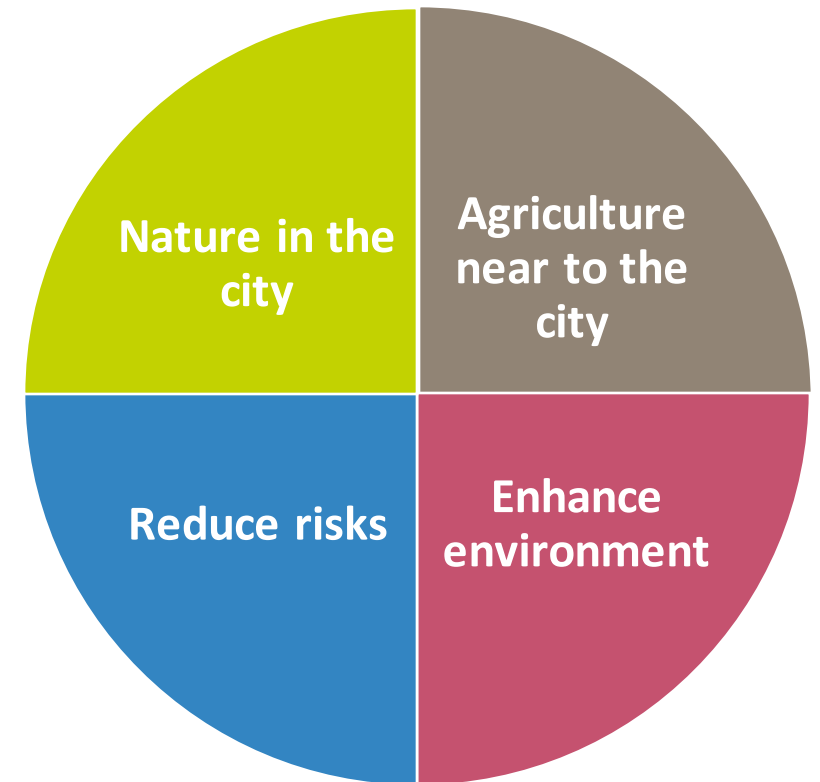


Save the water ! P.A.P.I. Cagne-Malvan 1 signed in 2016 16 615 000 € HT
Restore natural functioning to rivers that have been altered by development, urbanisation and human activities

- A- FONCIER**
 - Procédures judiciaires depuis 1995 pour stopper le mitage agricole
 - Achat de terres agricoles depuis 1995 pour 1M€ de deniers communaux
- B- JARDINS FAMILIAUX**
 - **a** 2012, **b** 2015, **c** 2019
- C- EAUX ET BERGES**
 - Etudes depuis 2007 des « assècs » de la Cagne, pour trouver des solutions pérennes et sauvegarder un débit minimal
 - Lutte contre la pollution de la Cagne et du Malvan, contrôles et recherche des causes pour rétablir la qualité de l'eau
 - Servitude de 10 m au PLU 2011
 - Reprofilage de la rivière par génie écologique en 2000 (1^{er} dossier des Alpes Maritimes)
- D- LUTTE CONTRE LES INONDATIONS**
 - Etude de ralentissement dynamique (action PAPI 6.1)
 - Piège à embâcle (action PAPI 5.4)
 - Travail de désinondabilité sur le Malvan (affluent de la Cagne)
 - Travail de désinondabilité du Centre-Ville (travaux du vallon des Combes)
- E- BIODIVERSITE**
 - Suivi de la population des anguilles
 - Etude de la faune piscicole par Fédération de pêche du 06
 - Expérience innovante de monitoring de biodiversité (avec Métropole et Muséum d'Histoire Naturelle)
- F- NATURE EN VILLE**
 - ① Parc du Bresq 12 870 m² créé en 2012
 - ② Parc des Bugadières 7 700 m² créé en 2002
 - ③ Parc des Canebiers 30 000 m² (travaux prévus 2019-2021)
 - Démolition du canal en béton et renaturation des berges
 - Reconstitution des milieux naturels
 - Création d'une passerelle et de promenades accessibles PMR
 - Aménagement d'aires récréatives variées
 - ④ EcoQuartier de la Villette
Suppression d'un îlot de Chaleur Urbain de 40 000 m² au profit de « rues-jardins »
 - ⑤ Parc des Bouleaux 10 960 m² créé en 1997. 1^{ère} Zone Naturelle Protégée
 - ⑥ Création d'un nouveau parc naturel urbain 11 470 m² (2021) sur le site de l'ancienne station d'épuration (travaux prévus 2020-2021)
 - ⑦ 1^{ère} Zone Marine Protégée 90 000 m² créée en 2009
Réserve sous-marine intégrale devant l'hippodrome
- G- MOBILITE DOUCE**
 - Promenades
 - Pistes cyclables
 - 1^{ère} section départementale créée en 2006 de l'EuroVélo 8, piste européenne de la Méditerranée



various actions :
 scientific studies, projects, works,
 sensibilization, planification,
 management and monitoring
 tools...to answer to many issues



Facing **IMPACTS** of global climate change

how preserving natural and cultural heritage on coastal regions ?



a **local** answer

restoring the river is a solution for territorial adaptation and resilience



different facies of the river La Cagne

a **MASTER PLAN** 2020-2040 to restore the river reconnect the city and citizens to the river

Val de Cagne : a cultural, agricultural, ecological high potential
Main issues : Flood risk, illegal embankment, distorted activities



Nature in the city : green and blue line connected to the sea
Main issues : impermeable soil, hydraulic infrastructures, eels's migration



Ville de
CAGNES-SUR-MER

MÉTROPOLE
NICE CÔTE D'AZUR

agence
de l'eau
RHÔNE MÉDITERRANÉE
CORSE
établissement public de l'État

Credit photo : Agence STOA

Governance : Stakeholder, local actors & citizens involved in the process

PROJECT LEADERSHIP

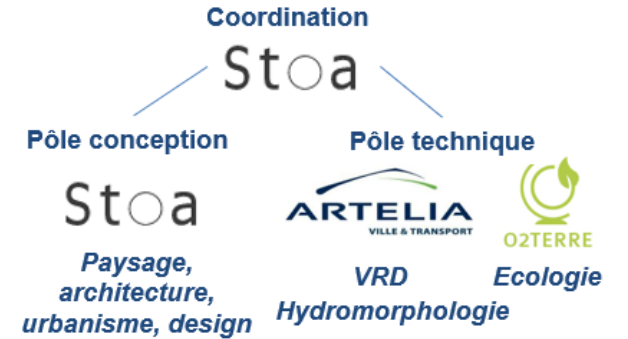
MASTER PLAN LA CAGNE 2020-2040

POLITICAL LEADERSHIP

Mayor & city council
General management
Services

TEAM PROJECT

Multi experts driven by a
landscape architect urban planner



Diagnostic - Orientations
The tools to achieve the goal

TECHNICAL LEADERSHIP

Water/Risks/Environment
Planification
Public spaces
Development Economy
Energy transition
Agriculture and Territorial Food Plan
Mobility
Infrastructures
Territorial subdivision

PUBLIC ADMINISTRATIONS & INSTITUTIONS

Technical ambition to consolidate the territorial interest

RESTORATION IN TOWN-CENTER 2022

Public Development Company project manager
GAUTHIER & CONQUET : landscape architects
TPFi + EGIS : engineers
BIOTEC : hydro. expert in Solutions Based on Nature
LPO : Biodiversity



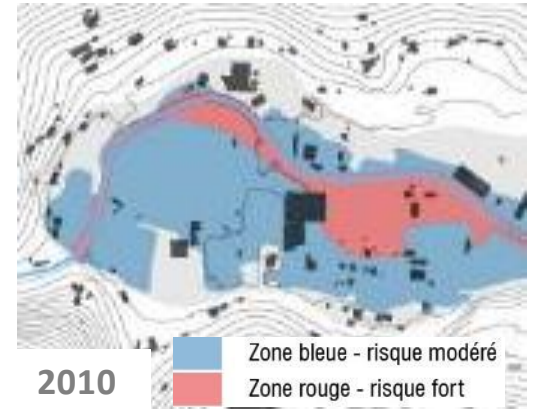
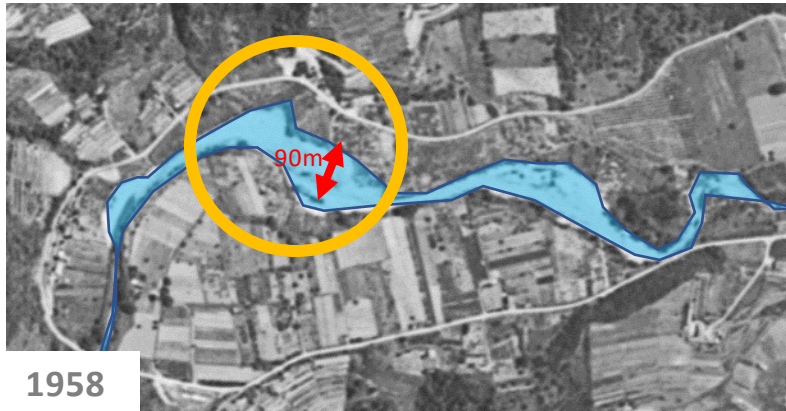
CITIZEN PARTICIPATION

SOCIAL ORGANIZATIONS CITIZENS

Reveal the social demand to
build the territorial narrative



Process : Crossing data, issues, problematics, expertises, orientations



1958
Spread flooding in the Cagne valley
Better protection of the city

ARTIFICIALIZATION
MISUSE of agri. area

Acceleration-Erosion-Closure
Increased flood in the city
More danger for population

2010
Flood prevention plan DDTM



SANCUARISATION

RESTORATION

Space for the river, biodiversity-agroecology-greenway & good time

Long-term



Main **PROJECTS** engaged

Natural & Agricultural Peri urban Protection Perimeter
– definition and programme
2023-2025

Restoration of the river
in town center and the
park 3ha
2022-2023

Creation of a park 1ha -
2022-2023

Restoration of the
estuary
Studies 2023-2024



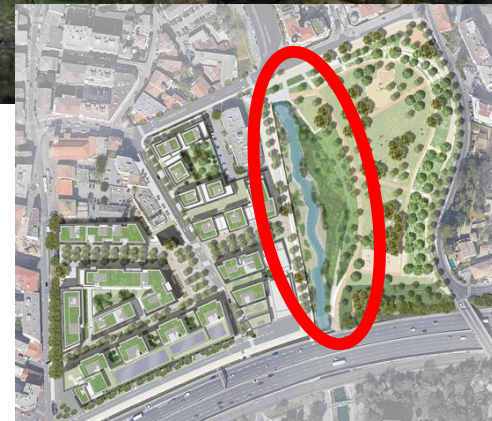
Waterproofing and vegetation
of the parkways 2024-2025

The **RESTORATION** of the river in town-center 2022

In the hart of the « *Coulée Bleue* » & the EcoQuartier « *Canebiers-Villette* »



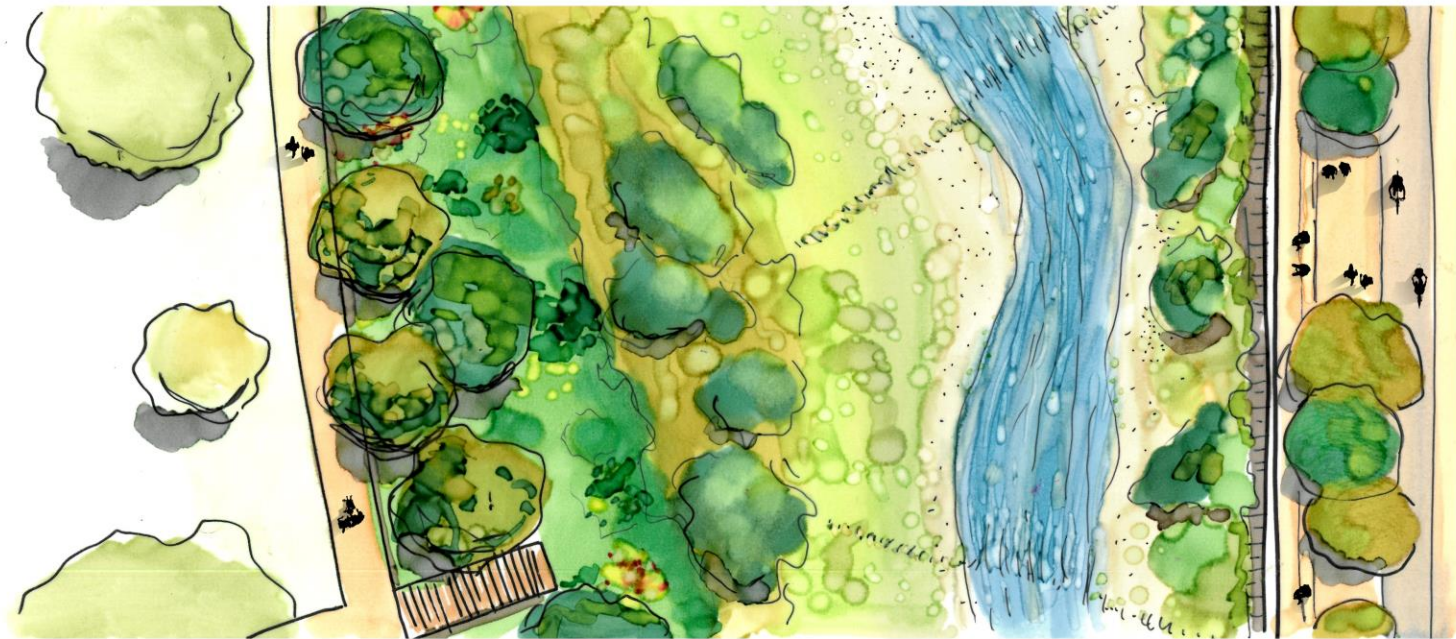
A first realisation to « *build the reputation* » of the Master plan



Principle : restore the river to a **good functioning space** hydro morpho ecological



1972 construction du chenal

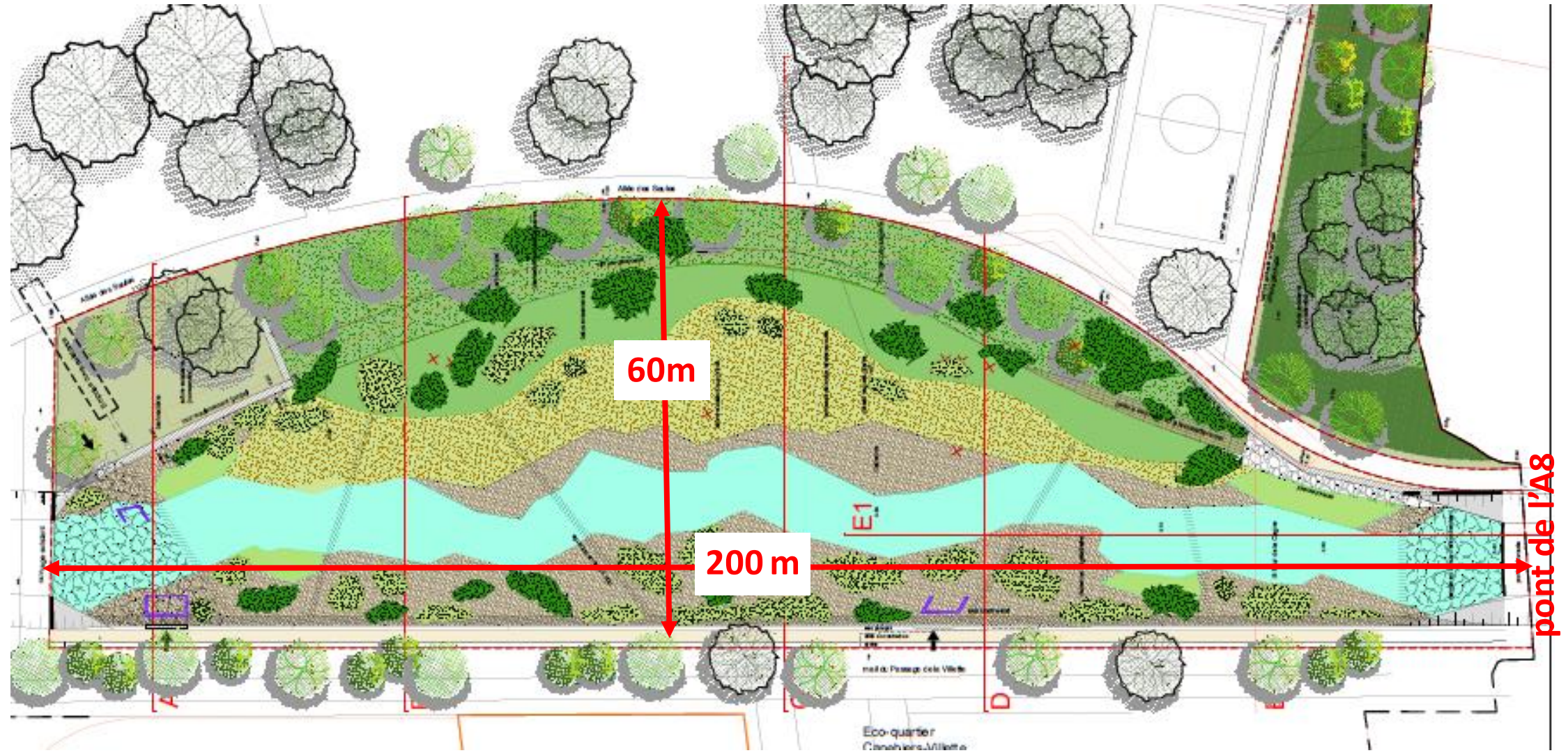


2022 démolition du chenal

X Benefits :



Model : Nature-based solutions



a **PILOT OPERATION** of local and european interest
+ 3 million € of public investment



Ville de
CAGNES-SUR-MER



Thank you for your attention !

Let's go on site !