



**POLITECNICO**  
MILANO 1863



**Parco**  **Ticino**



Sviluppo Sostenibile:  
tutela della biodiversità e dell'ambiente,  
qualità della vita



# **RAISING AWARENESS ABOUT HISTORIC AGRARIAN LANDSCAPE: A THIRTY-YEAR EXPERIENCE OF TICINO PARK.**

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**Participatory approaches for territorial cohesion**  
**Granada, 26 November 2019**

## *Marcita meadows landscape*





elementi del paesaggio e le relazioni funzionali, percettive, storiche e presenti, che li legano

*spidi di mare: i prati indelli  
spidi per non rimoria, non  
sunt dell'altimontazioni di  
sunt. In estate la dirona  
di marionazioni gene  
dionazioni di stendi  
re e chigan*

**Sipi**  
Panchaggias i mairi  
colturi, aqueas fendeas  
delle sogge, dema ripara per  
sindri, uallu e luerti.

**Hudgeson**  
They set along the fields,  
following the irrigation canals  
and they offer shelter for  
animals, birds and insects.

**Water springs**  
Puncts where the groundwater  
layer surfaces, helped by rain  
or rain in the ground. They  
are named *naschi* in the city

**Wine with**  
They were built along the coast, built to be the Quesadilla and were used for grinding olives into paste or ripe bananas. They are still in use.

The landscape elements and their functional, sensorial, past and present, relationships

**Spazio**  
Dietro la "cassina" c'è un'area di  
pianta d'ingrati. In  
primavera, allagata per la  
serena, rifiorisce la luce, le  
cassine sono verde scuro,  
in inverno alla seconda  
diventano gialle.

**Ray Jelle**  
They were divided into  
"rooms" surrounded by small  
bushes. When flooded for  
the winter, in spring, they  
reflect the light, in summer  
they become emerald green,  
while for the harvest, in  
autumn, they become yellow.

**Flax! & salsify a gift!**  
I want flaxseed oil so-  
let cross implanted po-  
tentialities cross, connect &  
gift, "salsify" alla stila in  
cultura pomologica. Salsify  
delusione per il bene  
che sta.

**Willow and mulberry align-**  
**ment**  
Flexible branches of willow  
were employed to make  
baskets, while mulberry trees  
"sawed" in the grapes in  
a mixed crop, had the  
all time use.

**Ortaggi e fiori**  
Un tempo utilizzati nei giardini delle caserme per nascondersi, oggi sono utilizzati a pieno campo e in serra per risultati ai vertici mondiali.

**Vegetables and herbs**  
Usually cultivated in a garden for self-consumption, today they are cultivated under glasshouse for the market.

# The marcita water meadows landscape system in the Ticino valley

**Caschi**  
Coopital, nata a come  
ditta o società, coopera-  
re di mutuali edifici per la  
cittadina, l'edilizia, la  
cooperazione, la trasformazione  
dei prodotti agricoli.

**Nonpolluted**  
Composed of rural buildings grouped around a central or half-open courtyard, they are used for education, animal breeding, storage and agricultural products and distribution.

**Mancia**  
Particolari grandi stabili,  
disegnati da una folla che  
li contempla che d'intorno  
reagisce, sciamano della nuova  
armonia.

**Special needs:** Individuals with a learning disability may have difficulty understanding the importance of staying hydrated. Encourage them to drink water frequently throughout the day.

**Flight Time**  
*Video only*

— **Editor del Mensaje**  
*Roberto Velasco*

Newly Graded  
a Canada Village

**Donna melata di Luffigia**  
È composta da volubili e  
quasi nuda pinne alla, non  
tut al piede della scarpata  
promulgano le specie tipiche  
quali salice e corno.

**Dorsal fin**  
It is composed by vertebrae and only in the upper part, but the bony part is a species like yellow and silver, probably in the base of the fish.

• *Urtica dioica* L.  
• *Urtica dioica* L.  
• *Urtica dioica* L.

**Scorpaenidae**  
**Scorpaenidae**

**Spago**  
 Filacci di fibre d'acqua alimentare  
 e di canovani e di canovani  
 artificiali, sono usati per  
 lavare i capelli e conservare le  
 piante del giardino.

**Woods**  
Small water courses fed by  
springs and artificial channels,  
are used for irrigation fields and  
small orchards.

stresztane i tracił.

irrigano i campi di mais e di riso,  
bagnano i prati e le marcite.

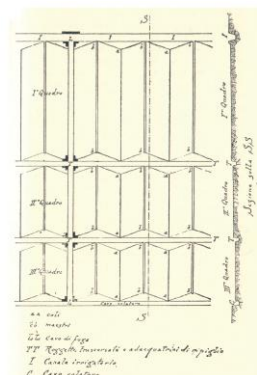
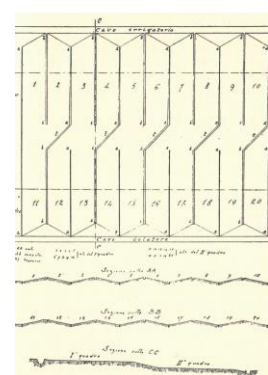
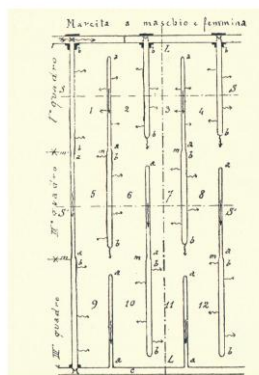
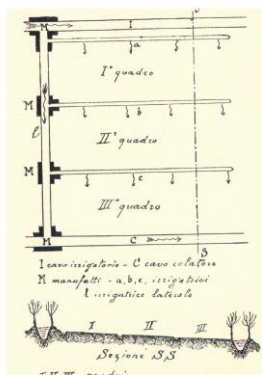
irrigate the milk.

water the corn and rice fields,  
 visit the meadows and the mountain meadows

# Marcita landscape values



*Mentre nella parte settentrionale d'Europa, noi non riusciamo al nostro scopo che usando di radici e di bevande stimolanti, e tutto questo con grande spesa, i Lombardi l'ottengono senza fatica e meglio di noi con i loro prati a Marcita*  
Burger - 1843







Tangible and  
intangible heritage

# Ticino Park's role in favor of traditional agricultural landscape



- ▶ Established by Regional Park from Regional Law n. 86 of 1983,
- ▶ since the end of the 1990s : actions for the protection of marcita meadows and for the protection of the historical landscape of meadows.
- ▶ The Territorial Coordination Plans (PTC) and related specific regulations have recognized its value and uniqueness
- ▶ Agri-environmental Measures allowed the Park to adopt innovative measures to protect lawns, hedges and rows with European contributions: in the first three years the park has offered free technical assistance to farms interested in joining the Reg. Cee 2078 (District Projects - Parco Ticino 1995-1998). The action continued in the following years, alongside the OOPPs, with all the RDP programs that followed (2000-2006, 2007-2013, 2014-2020).



# *Conflict, problematic, threats*

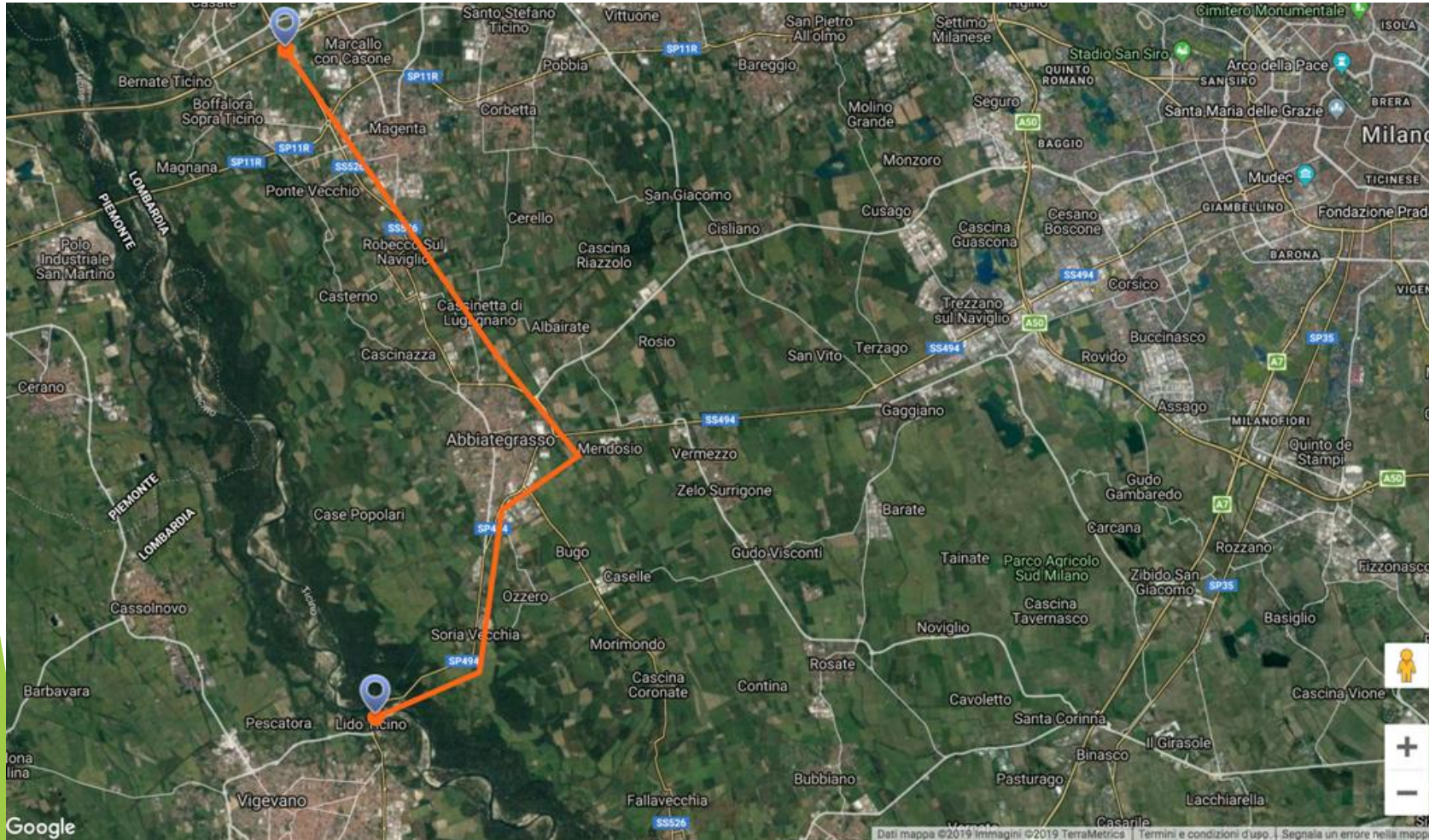
Main problems in the water management and the preservation of the historical landscape are due to the changes in:

- ▶ feeding animals (from fresh grass to UNIFEED),
- ▶ crops cultivation (from meadows to corn field and rice),
- ▶ irrigation system (from surface run-off to drop irrigation, not suitable for a plain with such a great availability of water),
- ▶ Irrigation time (lack of winter irrigation, historically based).

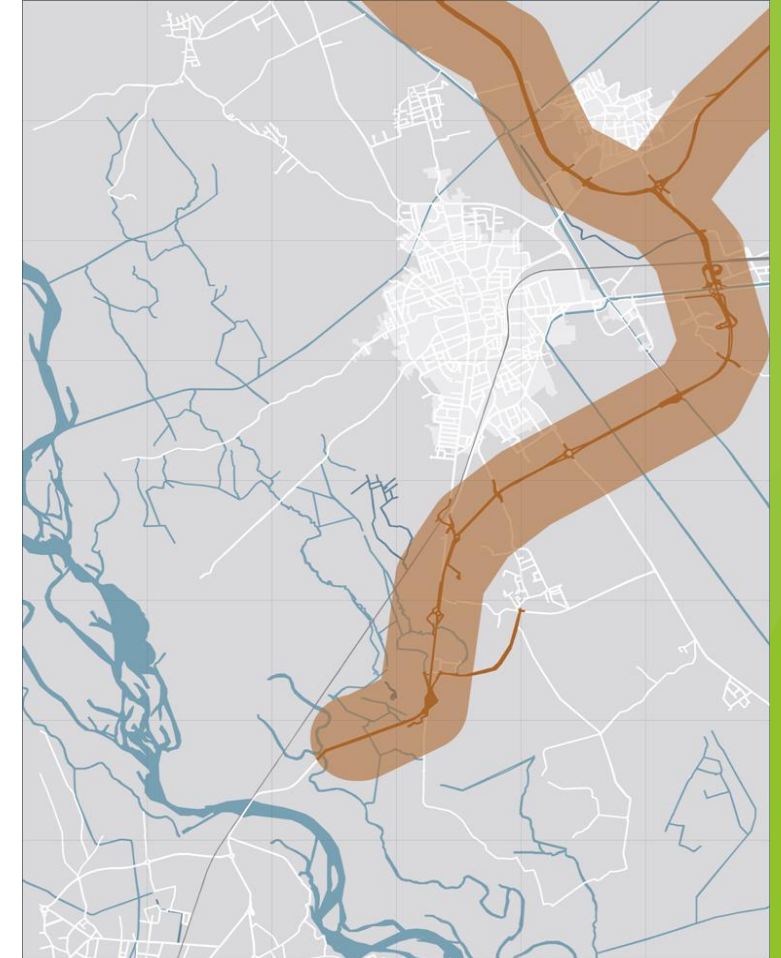




# The highway project



The project of the highway starts from the city of Vigevano and goes on the west side of Milan to connect Malpensa Airport

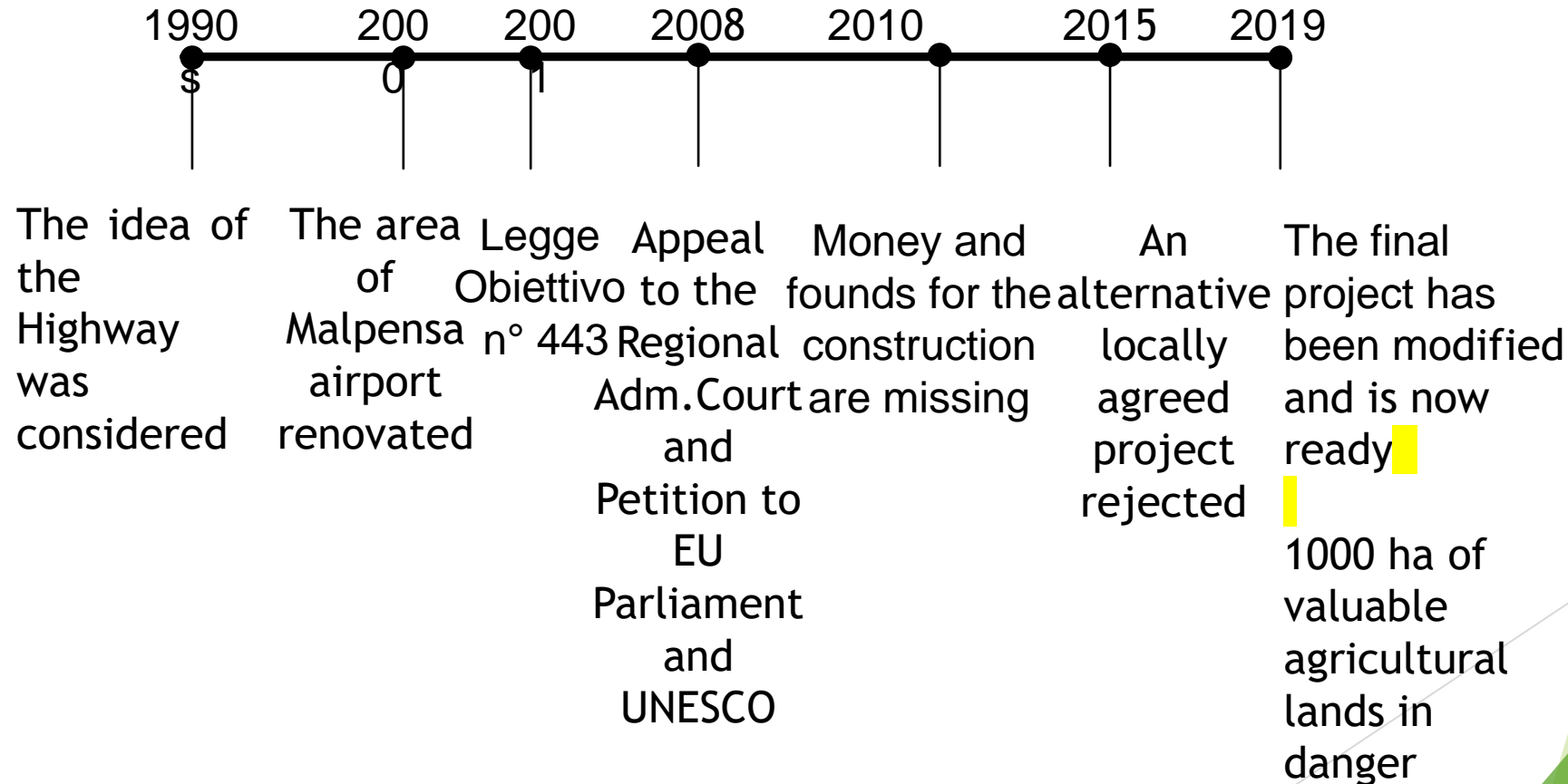


Fields affected by the project - a direct impact on 128 ha, a broad impact on 1000 ha of valuable rural lands



# HISTORY OF THE PROJECT

In the 90s with the great expansion of the airport of Malpensa there was the willing to connect better the city of Milan and its surroundings



# *Objectives and challenges*



DEFENDING, PROTECTING  
AND ENHANCING THE  
QUALITY OF AGRARIAN  
LANDSCAPE



SUPPORTING AND FUNDING  
FARMERS WITH  
ENVIRONMENTAL  
INTERVENTIONS



RAISING AWARENESS OF  
FARMERS AND CITIZEN  
ABOUT THE VALUE OF  
AGRARIAN LANDSCAPE.



# Tools



To primary schools: in class lesson, plus a landscape survey (Life Biosource EU project) (30 schools and 232 classes , about 5400 students);



To university international students: digging workshop (around 100 students in two years)



To farmers: course for water manager (camparo) (Life Biosource EU project) (about 15 farmers);



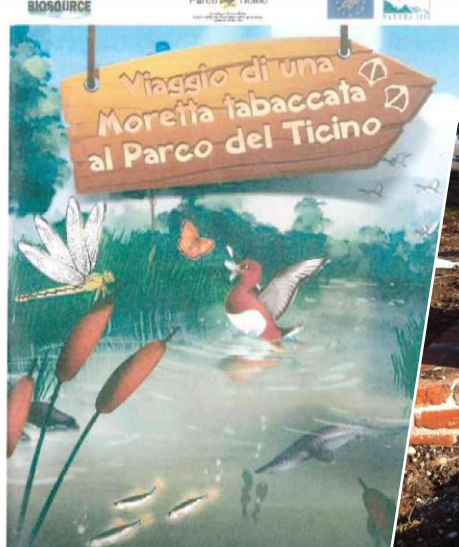
To local population and: and travelling conferences in Lombardy and Piemont regions (16 conferences, with 30-50 people per conference); “discovery walks” trough landscape (50 people)



To enterprises: off-site team building workshop (bike tour and digging activities) (20 people)



To tourist: itinerary map and videos played at national and international film festivals (5 festivals)



Primary  
schools



# University students







# Farmers





# Local population



## Le Marcite a Vigevano

un patrimonio nascosto  
una trama leonardesca  
un nuovo paesaggio sonoro

da sabato 16 febbraio  
a venerdì 22 marzo

Sabato 16/2 Inaugurazione mostra **"Paesaggi di Marcite dalla Terra al latte"**  
SOTTERRANEA nuova del CASTELLO SFORZESCO (orario 10-19 - inaugurazione ore 11)  
apertivo di benvenuto, presentazione gelato **"Fior d'inverno"** di **Dolce Positivo**

Domenica 17 proseguo della mostra presso SOTTERRANEA nuova del CASTELLO

Lu 18/2 - do 3/3 Mostra a **PALAZZO MERULA** (visite su prenotazione anche per scuole)

Sabato 23/2 **Dalla sapienza contadina delle marcite al genio di Leonardo**  
Convegno a **PALAZZO MERULA** <sup>19</sup>

Me 6/3 - ve 15/3 Mostra all'Auditorium IIS CARAMUEL-RONCALLI (orario 9-13)

Venerdì 15/3 **La manualità del badile: sapere e ingegno nel lavoro manuale**  
Incontro con i gli studenti (IIS Caramuel-Roncalli) <sup>19</sup>

Venerdì 15/3 Mostra **MULINO DI MORABASSA** (orario 15-18)

Sabato 16/3 **L'economia circolare dell'acqua: l'oro blu e il paesaggio rurale**  
Convegno a **MULINO DI MORABASSA** <sup>19</sup>

Venerdì 22/3 **Il paesaggio sonoro delle marcite: canto d'acqua e volo di richiami**  
immagini e suoni della specie estinta protetta  
Serata conclusiva a **PALAZZO MERULA** <sup>19</sup>  
<sup>19</sup> info orari e programmi: 348 7833765



"Durante l'inverno,  
grazie ad un continuo e preciso lavoro dell'agricoltore con il suo badile,  
un sottile velo d'acqua ricopre sul manto erboso di particolari prati preparati  
e sistemati ad arte, impedendo il formarsi del gelo.  
Il vento continuo a ciondolare ed il prato non smette mai di vivere".  
Questa è la marcite.



**LEGAMBIENTE** **Donne in Campo** **A2PassiDaQui**  
Spazi di bellezza con l'insidia del cemento

## A spasso tra marcite e rogge del Parco del Ticino

Escursione naturalistica guidata



Domenica 27 gennaio 2019

### Programma

Ore 10:00 Ritrovo presso il Centro Parco La Sforzesca  
Ore 10:10 Accoglienza e breve momento introduttivo  
Ore 10:20 Inizio escursione  
Ore 12:45 Pranzo alla Cooperativa Portolupi  
Ore 15:00 Visita alle Marcite del Mulino del Maglio  
ore 16:00 [Visita al Birrificio](#)

Una escursione naturalistica di circa 2 ore la mattina su strade asfaltate a bassa percorrenza e sterrate per visitare le marcite della Sforzesca. Nel pomeriggio visita guidata al Mulino del Maglio e al Birrificio del Parco.  
Ci ritroveremo all'ingresso del [Centro Parco La Sforzesca](#), dove verremo accolti dalle guide, Giovanni Molina e Michele Bove. Dopo una breve spiegazione del programma della giornata partiremo per la nostra escursione.  
Dopo aver visitato le marcite faremo ritorno al Centro Parco e da lì ci sposteremo alla [Cooperativa Portolupi](#) per il pranzo (ore 12:45 circa). Alle ore 14:40 circa ci sposteremo in macchina ad Ozzero per la visita al Mulino del Maglio e successivamente al Birrificio.

L'evento è organizzato in collaborazione con [Donne in Campo](#) e il supporto tecnico del Parco del Ticino.

Terre di Parchi

Circolo territoriale [ Parco del Ticino ] [ Parco Agricolo Sud Milano ]

- ✓ travelling exhibition about "marcite meadows landscapes"
- ✓ cycle itinerary with on-site signal and panels about marcite landscape (Lombardy Region, Agriculture Dep.)
- ✓ online and paper map
- ✓ brochure (Italian and English)
- ✓ 4 short videos and one long video about key topic (history, food products, environment, people)





Association





# Enterprises





[illegible][illegible]

Ultimamente si muove nella campagna tra Robecchetto, Abbiategrasso e Ottuno, parzialmente al centro del Parco Ticino. Solo e solitario nei terreni fangosi, ci muoveva e si allentava dal Grande Ticino. Allora le anatre e il primo marceiro vi, sopra il secondo pianeggiante delle sponde della pianura che digradano da nord-ovest a sud-est. Attorno in paesaggio sono con alternanza di prati stabili, tucchi, campi di mais, prati d'alta mietitura, sieci, vici e altri usi agrari. Vieni affascinato da filari di sieci estenuati (gallie, ortoni e grappe, da filari senza alberi che nascondono solo i nomi di stentati). Il Concello dai prati stabili della pianura, le casine ocase e grotte da secoli di questo patrimonio paesaggistico modellano l'altitudine di acque superficiali e sotterranee. Si può percepire in tutte le stagioni per apprezzare la diversità del paesaggio, ma la sua gestione migliore è l'inverno, quando le marceiro sono in maggiore alla brava bruta di letta e al sole.

**Keywords:** *Chlorophyll fluorescence, photosynthesis, photosynthetic electron transport, photosynthesis, photosynthesis, photosynthesis*

The trimmery loads through the country between Rehoboth, Abingdon, and Cape Charles alongside the coast of the Rappahannock River and down the coast into the Chesapeake Bay cluster these further the big brown, blue, and white *maritima* meadows and grasslands, a little the natural sound of waters which come in from the north-west to wash them. It crosses a landscape, shared together by *perennans*, *canis*, *erica*, *coris*, *allis*, *glandula*, *oxy*, and other water wetters.

Keats of *intempest* school, *allens* and *perennans* are abundant in it and thick bushes hide the water away.

It is rich in ferns, house, cattails and other species of this landscape before the grass could be a theory of surface and the grass water. It can be used in all seasons or in the changing landscape, but to be a winter when green *maritima* meadows show the bluish of time in the

[illegible][illegible]

**Music**  
 "There's no 'American' atmosphere  
 in a national anthem," says  
 the princess, "except for the  
 atmosphere, I believe, to be  
 aware of the world around  
 us, to recognize who we really  
 are."

**Travel**  
 "I've never traveled with  
 a passport, but I've been to  
 the United States."

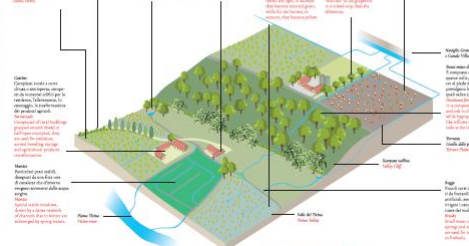
**Food and drink**  
 "I don't eat anything that  
 isn't organic, and I don't  
 eat anything that isn't  
 local. I don't eat anything  
 that isn't fresh."

**Beauty and fashion**  
 "I don't like to wear  
 anything that isn't  
 natural. I don't like to  
 wear anything that isn't  
 organic. I don't like to  
 wear anything that isn't  
 local. I don't like to wear  
 anything that isn't fresh."

**Design & art**  
 "I've always admired  
 the way that the American  
 people have been able to  
 take something that is  
 so simple and make it  
 so beautiful."

**Life**  
 "I don't like to live in a  
 place that isn't organic.  
 I don't like to live in a  
 place that isn't local.  
 I don't like to live in a  
 place that isn't fresh."

**Vegetation:** Plants are chosen to be hardy and tolerant of drought conditions. They are also chosen to be low-growing and non-invasive. The growing media is a mix of soil and perlite or vermiculite. The drainage layer is a layer of gravel or plastic. The insulation layer is a layer of foam or mineral wool. The structural deck is the base of the roof.



alimentano i mulini,  
irrigano i campi di riso e di riso,  
bagnano i prati e le marecche

**Keggin Rile**

Original by  
mrs. Schmitt

Red composed by  
Mrs. Schmitt

water the corn and the fields,  
not the meadows and the meadow's me.

**Ruggie**  
**Verga/Finomaggiore**

## J. MARCUTA MIADEW



Stress and Resilience: understanding the role of the environment in the development of mental health problems.

CONTADINI DELLA BASSA  
E MONACI CISTERCENSES



**FARMERS OF THE IRRIGATED PLAIN AND CISTERCIAN MONKS**

The same network of irrigation channels, now

LA SOMMERSSIONE INVERNALE  
WINTER SUBMERGION

It is this mixture of purple, yellow, a light blue, yellow, lavender, orange, red, and brown that gives the lake its name. The lake is a natural wonder, and the only one of its kind in the world. It is a natural wonder, and the only one of its kind in the world.

### THE RECOVERY



A regione della Pianura del Nord-Est, la produzione agricola negli anni ha visto un forte calo, con un aumento della superficie coltivata a colture di sussistenza.

How knowledge of mental models helps in

**IL LAVORO DEL CAMPARO**  
**THE WATERMAN WORK**

Il tempio. Quale altare che accende l'attesa e  
taceva nel gelo e nella neve rigogliosa affonda  
l'incanto e allunga per le strade solitarie, sopra

**6. ERRA DI MARCITA E LATTE**  
**6. MARCITA FERRAGGE E MIELI**

Dalla marcita si possono ottenere 450 tagli di latte e almeno 5 tagli di erba in stagione e primavera.

*Industria aérea, Gallos jubartes. La marcha sigue en  
valles de maroma conservacionistas europeos, que  
Syracus Airport a la Zona 8 de la zona.*

Due to treatment, production changes in the last and in the second half of pregnancy were not significantly different from the corresponding changes in the control group.


students have been rapidly transformed to native level with a very descriptive effort. Only few traces of German still remain, presented thanks to the collaboration between us between and the Chinese and Italian local indigenous firms.

La filigrana di cordi intrecciati, alquanto irregolare e non numerata, è la prova della commissione lavoro.

nessi non si spregano la differenza tra le semplici  
matite e i libri complessivi della matita. La ma-  
tita, quindi, è un prodotto di qualità, quello che si  
trova in ogni scuola, in ogni casa, in ogni ufficio.

Sebbene il marito prenda come un leggero tagliando, il Digi è uno strumento che l'ha guidato verso il meglio. La sua lettura, non solo di proprietà dell'uomo, proprio come il suo stato di salute.

Excessive Internet use leads to mental health problems, says a new study. Researchers also predict that white women and the





# *Local communities' role*



Local primary school pupils had an active role in small workshop.

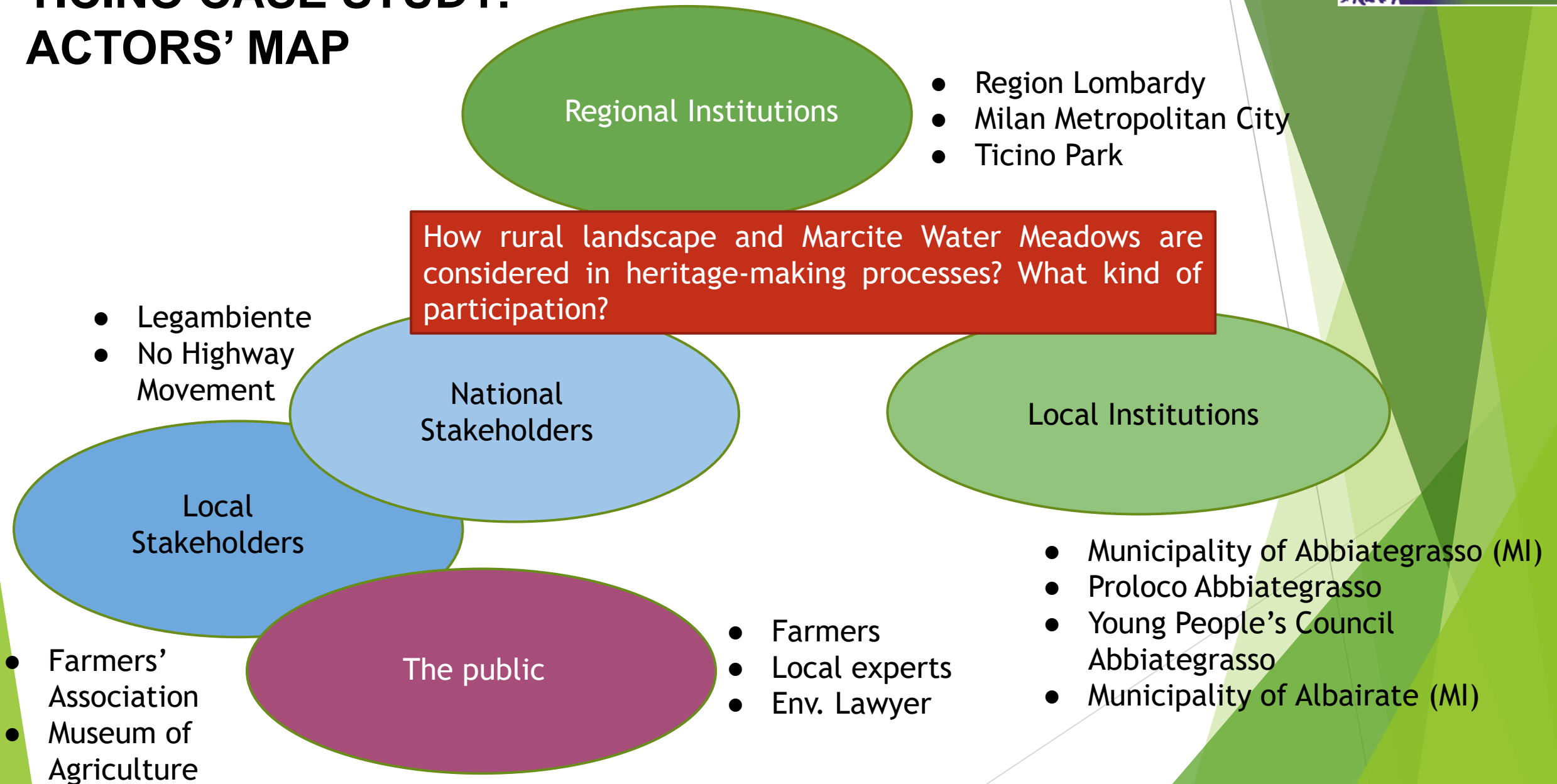


Farmers have been actively involved in digging activities.



Citizens had mainly a **passive** role, listening to the conference (possibly discussing), reading the exhibition and watching the videos.

# TICINO CASE STUDY: ACTORS' MAP





# The conflicting role of marcita meadow



## Regional Institutions

- ✓ A potential future model for sustainable circular economy for the town (within a climate change perspective)
- ✓ A unique internationally acknowledged value to be preserved for its eco-systemic continuity



A conflict between the shame of a rural past and the advantages of a high quality of life

## National Stakeholders

## Local Stakeholders



- ✓ Tool for building a sustainable future
- ✓ Something disappeared, linked to an historical personal memory



## The public

Marcita meadow as heritage is important for the identity of the place (made of hard rural work), to make future generations understand certain values: the value of WATER.

## Local Institutions



Pro Loco Abbiategrasso

- ✓ A relics of the past, a Medieval remnant
- ✓ Part of a past identity, an “old tradition”, with an historical and cultural value (not productive)

# Achieved Results

- ▶ A general “light” awareness has been achieved among adults and pupils and farmers
- ▶ Collaboration with “No highway” committee encouraged participation activities (“discovery walks”)

## Not yet achieved...but forecast

- ▶ Present to local communities results of EU REACH -Culture project
- ▶ Present the achievement of Landscape prize from Ministry of Culture and the process for being included among the Register of Historical Landscape promoted by Ministry of Agriculture in a participatory event/workshop
- ▶ Building a water manager/farmers association



# Conclusions

- ▶ It is still a top-down approach: it is ***engagement*** (institutions involve citizens in participation to save heritage) more than *participation* (citizen self-organize to save the heritage)
- ▶ Toward a “**participatory governance**” in cultural heritage (2018, working group of member States’ expert of EU Commission, open method consultation working group of member states’ experts - OMC WG)