



**POLITECNICO**  
MILANO 1863



# How to make resilient a rural heritage?

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Budapest, 10 May 2018

# Introduction

What are the main issues about conservation and enhancement of rural heritage?

Risks of loss of tangible and intangible values

## Intangible values

Lack of availability in continuing both manual and machine techniques

Citizens less recognize values cultural value of agriculture

Farmers do not acknowledge cultural value of agricultural landscape

## Tangible value

Demolition of landscape heritage features due to a change in techniques (e.g hydraulic artefacts, merging of fields, elimination of hedgerows...)

Alteration of artefacts due to a change in use: loss of significance

Substitution of artefacts: loss of material (integrity value)

Who is taking charge of long term maintenance and transmission to new generation?

How participatory process could make rural heritage more resilient?

Involving actors: how?

- Enhancing likewise tangible and intangible values
- Participation should enters at each step of the process (not only at a precise moments) start from the beginning until the transmission. It is an ongoing process

Working with people and artefacts

# Methodology: two case study based on research-action

## **1\_Recognise the value**

Approach: reading landscape as a system (Building + fields)

Reading tangible and intangible permanencies

## **2\_Requalifie/recovery** artefacts

Conservation project/design

## **3\_Maintenance** of techniques and physical elements

Action Plan; who is in charge: public authorities, farmers, citizens association

## **4\_Transmission** knowledge and values

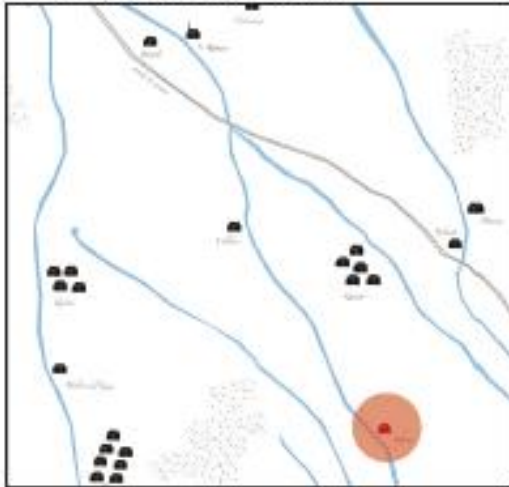
To public authorities, experts, general public, school

# Linterno farmstead a living rural héritage in urban context



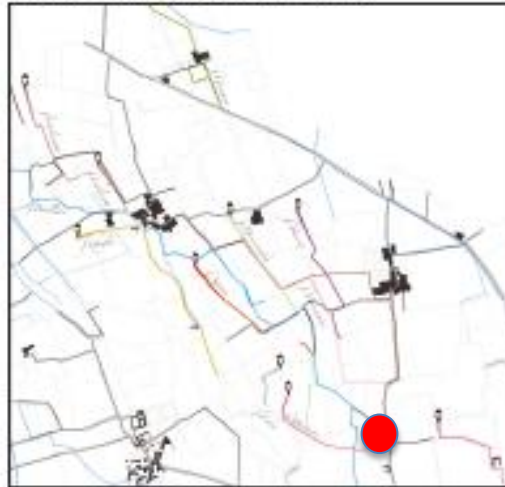
# Water system evolution

1659\_Carta del Claricio



1<sup>st</sup> evidence of "fontanili"

1722\_Catasto Teresiano



fontanili landscape "picture"

1865\_Catasto Lombardo Veneto



the cadastral revolution result

1936\_IGM+1946\_CTC



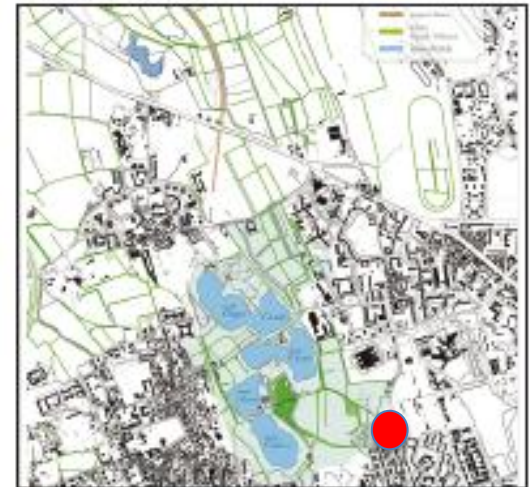
the Villoresi Canal construction result

1990\_CTC



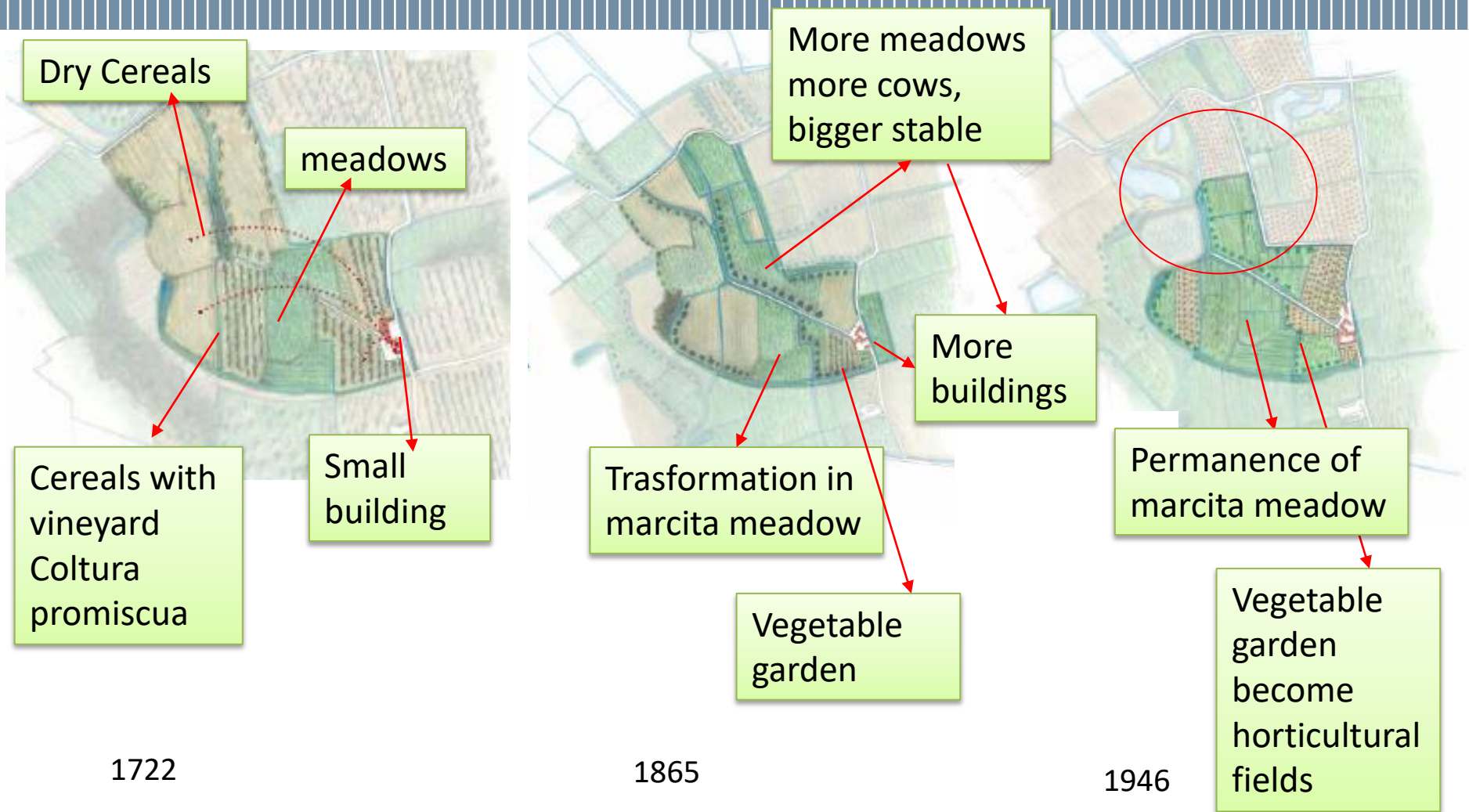
fontanili "death"

2006\_CTC



the rebirth

# Historical evolution of landscape system



# Linterno farmstead\_1 recognise the historical landscape system tangible integrity and intangible values

## TANGIBLE INTEGRITY

Permanence ad aged structures



## TANGIBLE INTEGRITY

Permanence of aged structures and plaster layer and small elements (column, with palm capitals, arch gate); chapel XVIII century; porch with column decorate painting and pavement Well, wood sculpture

## INTANGIBLE VALUES

Structure coming from XIV- XV century, called as Petrarca residence; place of parish devotion; place of common work and live



## TANGIBLE INTEGRITY

Permanence of an aged structure , only partially renovated

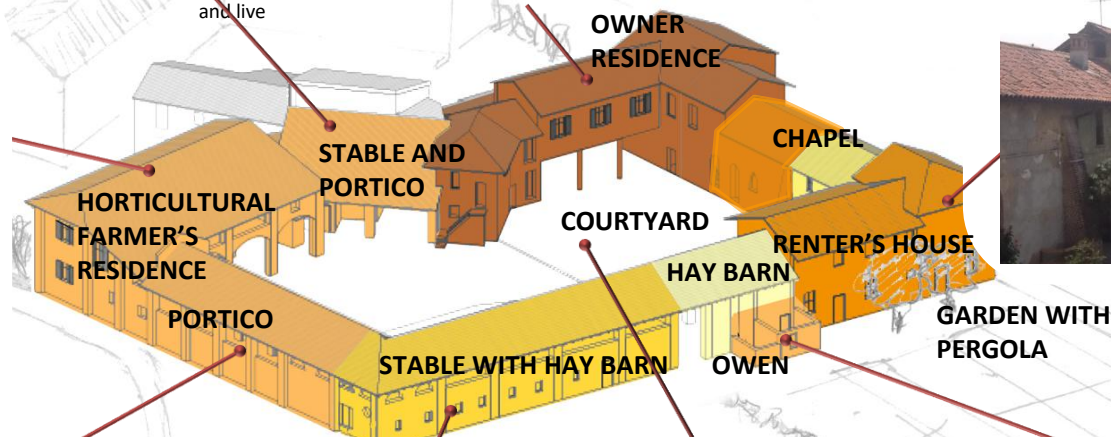


## TANGIBLE INTEGRITY

Permanence of aged structure and Historic techniques, brick pavement, wood slab, plaster layers.

## INTANGIBLE VALUES

Votive tile; porch used as meeting as living place; historical wisteria



## TANGIBLE INTEGRITY

Permanence of aged structure and roof and small elements (stones from vegetable market, drinking trough, agricultural tools).

## INTANGIBLE VALUES

Proof of everyday rural life.



## TANGIBLE INTEGRITY

Permanence of concrete pavement and high border for cleaning cereals.

## VALORI IMMATERIALI

Proof of everyday rural ritualities.



## TANGIBLE INTEGRITY

Permanence of aged structure and roof, slab made with faggot.

## INTANGIBLE VALUE

Proof of traditional costumes



## TANGIBLE INTEGRITY

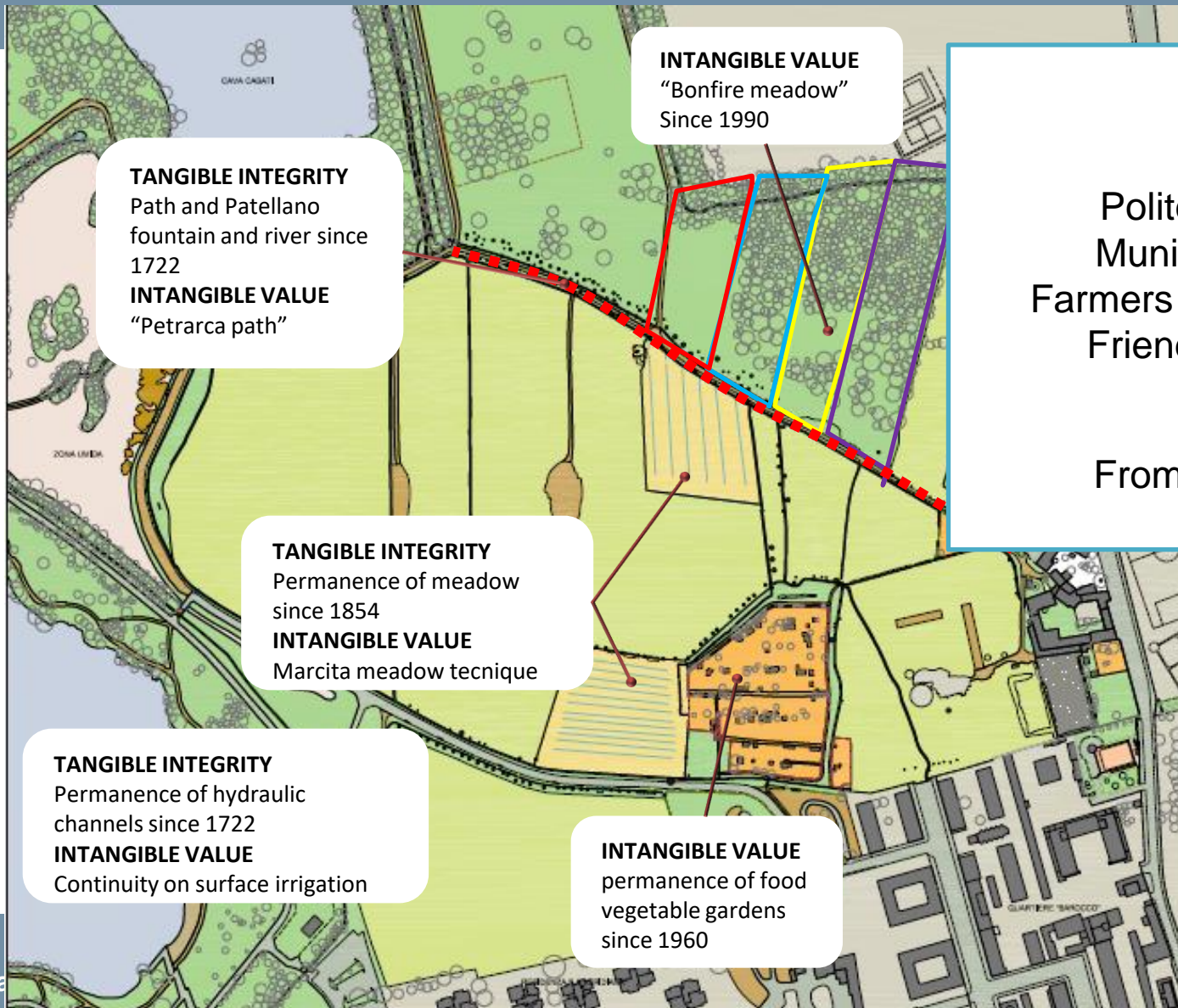
Permanence of aged structure and roof.



- Antecedente il 1722 (Catasto Teresiano)
- Antecedente il 1833 (mappa del Brenna)
- Costruito tra il 1833 e il 1855 (allegato rettifica fabbricati Catasto Lombardo Veneto)
- Antecedente il 1910 (Piano Regolatore Generale della città di Milano).
- Posteriore al 1930 (Carta Tecnica Comunale 1930 - tavoletta IGM seconda levata).

Elabor. 2013 , aggiorn. 2015  
Indagini, elaborazione grafica e sintesi  
PaRID/Politecnico di Milano

# Linterno farmstead\_1 recognise the historical landscape system tangible integrity and intangible values

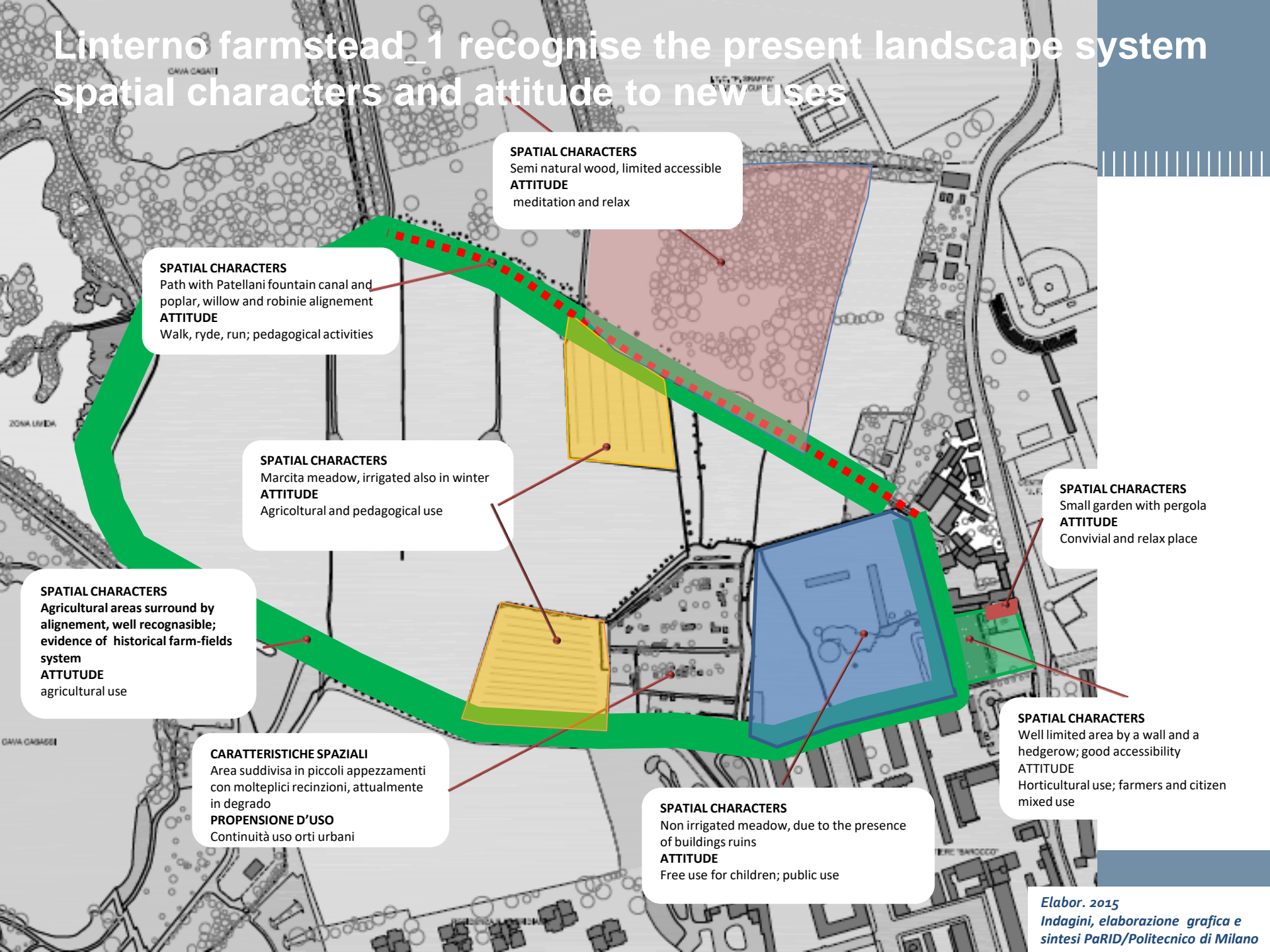


## WHO

Politecnico students  
Municipality of Milan  
Farmers Districts (DAM)  
Friends Linterno farm association

From 2013 until now

# Linterno farmstead\_1 recognise the present landscape system spatial characters and attitude to new uses



## SPATIAL CHARACTERS

Semi natural wood, limited accessible

## ATTITUDE

meditation and relax

## SPATIAL CHARACTERS

Path with Patellani fountain canal and poplar, willow and robinie alignment

## ATTITUDE

Walk, ryde, run; pedagogical activities

## SPATIAL CHARACTERS

Marcita meadow, irrigated also in winter

## ATTITUDE

Agricultural and pedagogical use

## SPATIAL CHARACTERS

Agricultural areas surround by alignement, well recognasible; evidence of historical farm-fields system

## ATTITUDE

agricultural use

## CARATTERISTICHE SPAZIALI

Area suddivisa in piccoli appezzamenti con molteplici recinzioni, attualmente in degrado

## PROPENSIONE D'USO

Continuità uso orti urbani

## SPATIAL CHARACTERS

Non irrigated meadow, due to the presence of buildings ruins

## ATTITUDE

Free use for children; public use

## SPATIAL CHARACTERS

Small garden with pergola

## ATTITUDE

Convivial and relax place

## SPATIAL CHARACTERS

Well limited area by a wall and a hedgerow; good accessibility

## ATTITUDE

Horticultural use; farmers and citizen mixed use

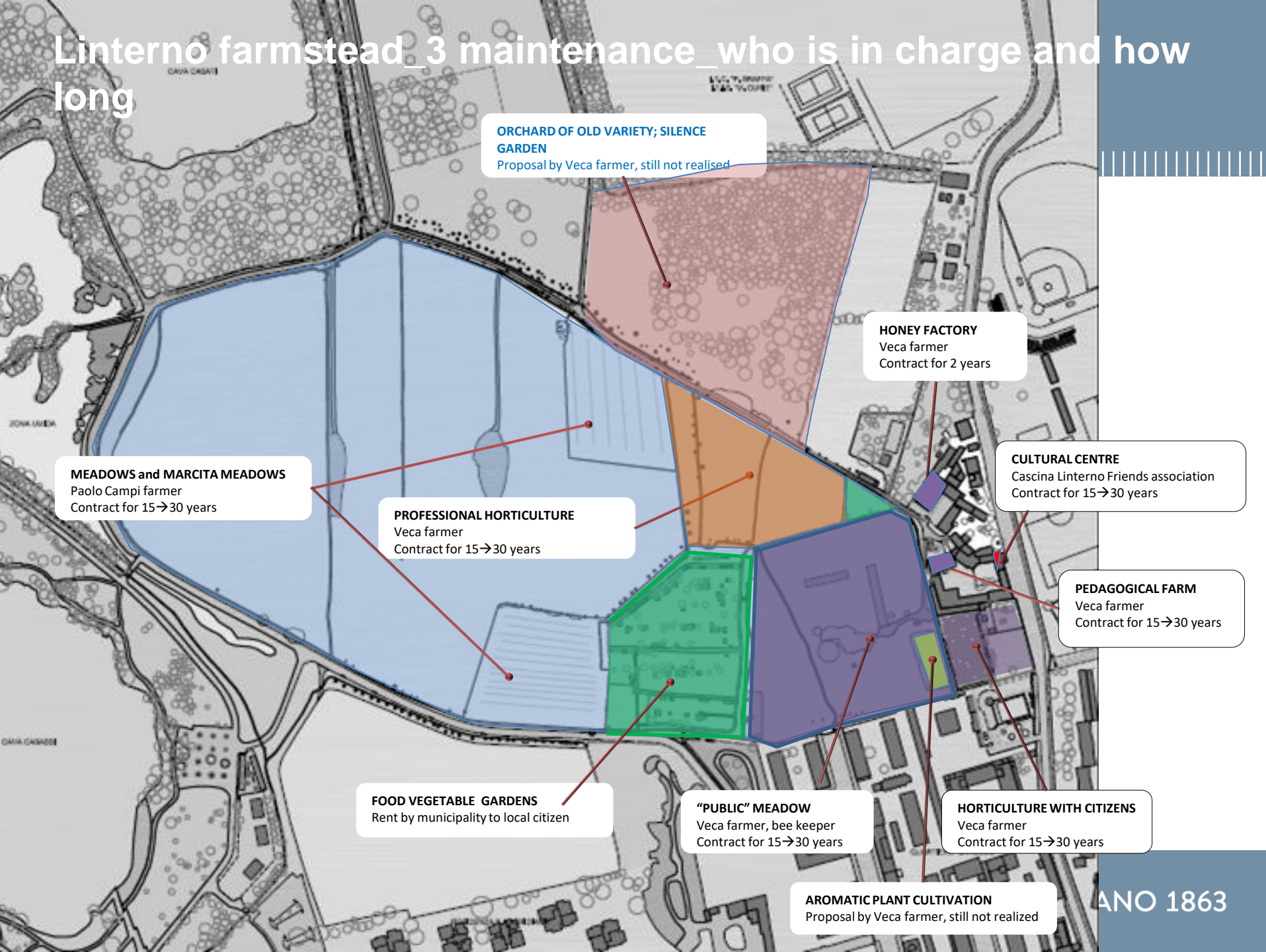
Elabor. 2015

Indagini, elaborazione grafica e sintesi PaRID/Politecnico di Milano

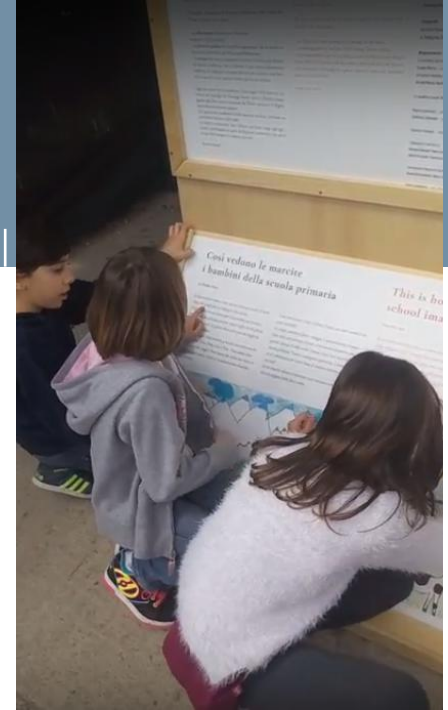


- Interventions differentiated according building  
characters and conservation conditions  
CARIPLO FOUNDATION funding with Municipality of  
Milan

# Linterno farmstead\_3 maintenance\_who is in charge and how long



# Linterno farmstead\_4 transmission

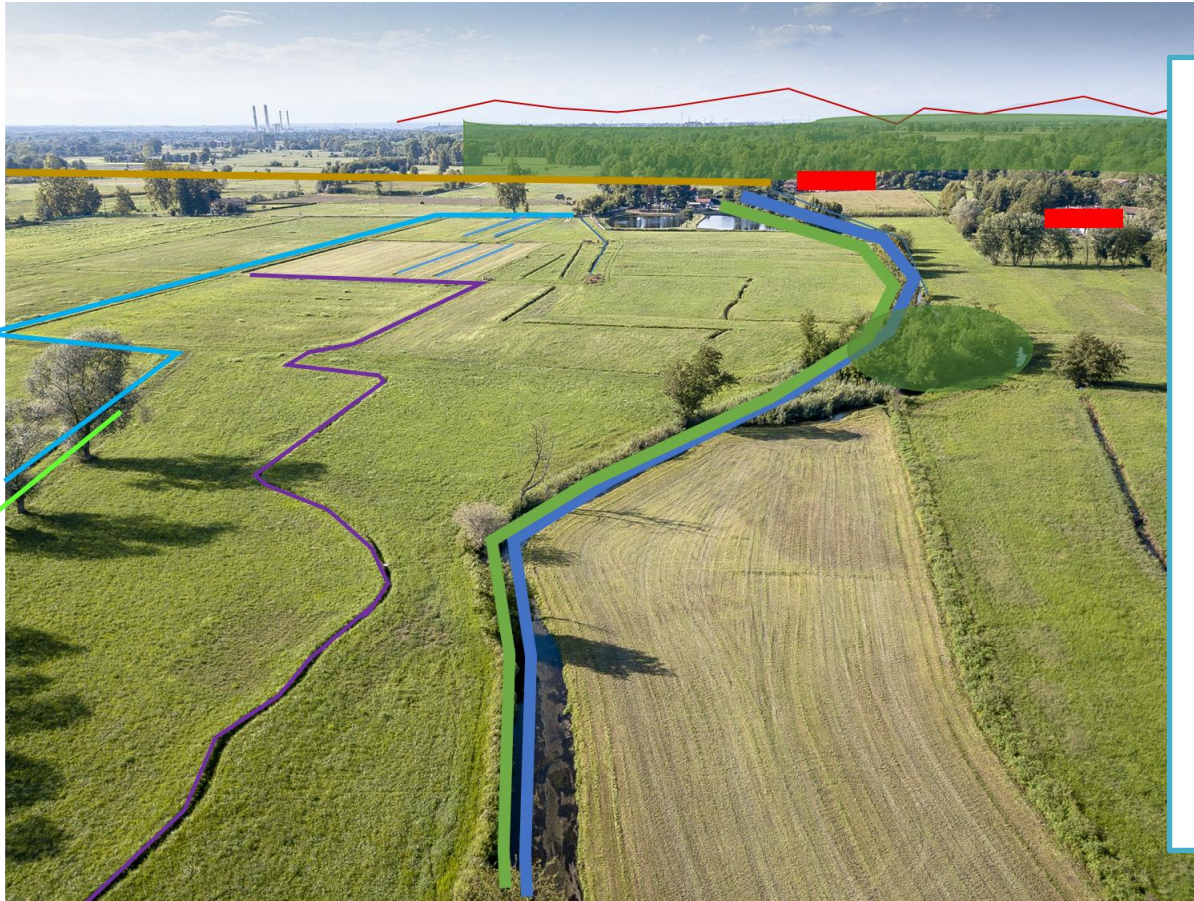


# Marcita meadows\_a diffused rural heritage





# Marcite meadows\_1 recognise the landscape system



## WHO

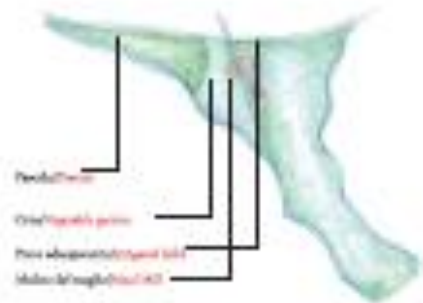
Ticino park  
Politecnico students  
Farmers  
DINAMO district\_farmers  
cooperative

Time from 201...to 201  
But belongs to a 30 years  
work of preservation and one  
to one communication

# Historical evolution

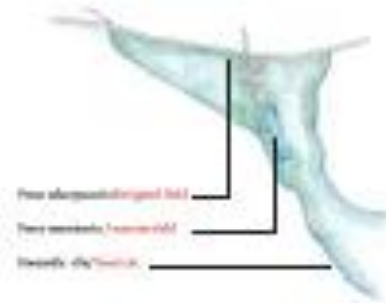
Portugal + Magalhães  
sulla base del Cosmogràficus 1562

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sulla base del Cosmogràficus 1562

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sulla base del Cosmogràficus 1562



Portugal + Magalhães

Portugal + Magalhães



Portugal + Magalhães

Portugal + Magalhães



# Marcita meadow values

Permanence  
since 1188 !

Expression of  
Milanese  
agricultural  
genius

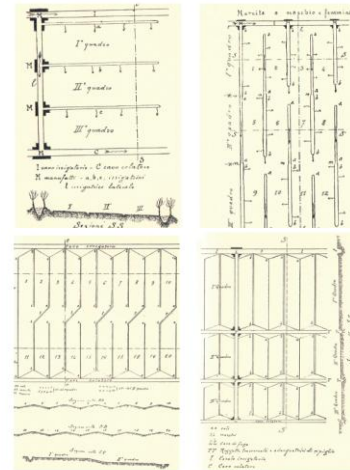
High flora and  
fauna biodiversity

Water drawing on  
fields

Green meadow in  
snow time!



*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



historical

cultural

environmental

morphological

aestetical

# Marcite meadow\_ 2 conservation design

## INTANGIBLE HERITAGE

Marcita cheese production

Progetto «razze bovine autoctone» Banca del Monte di Lombardia

AGRONOMIC  
AND ECONOMIC  
VALUE

ENVIRONMEN  
TAL VALUE

CULTURAL  
VALUE

TANGIBLE HERITAGE  
150 ha of marcita  
meadows

Progetto LIFE  
Biosource

TANGIBLE  
HERITAGE  
restauration  
marcita  
meadow  
mulino del  
maglio

# Marcite meadow\_restauration



1. Preparazione del terreno  
1.1. Rimozione della vegetazione esistente



2. Semina  
2.1. Semina della miscela di semi



3. Manutenzione  
3.1. Rimozione della vegetazione invasiva



4. Manutenzione  
4.1. Rimozione della vegetazione invasiva



5. Creazione di nuovi canali  
5.1. Creazione di nuovi canali



6. Creazione di nuovi canali  
6.1. Creazione di nuovi canali



7. Creazione di nuovi canali  
7.1. Creazione di nuovi canali



8. Creazione di nuovi canali  
8.1. Creazione di nuovi canali



9. Creazione di nuovi canali  
9.1. Creazione di nuovi canali



10. Creazione di nuovi canali  
10.1. Creazione di nuovi canali



11. Creazione di nuovi canali  
11.1. Creazione di nuovi canali



12. Creazione di nuovi canali  
12.1. Creazione di nuovi canali

# Marcite meadow\_ 3 maintenance

## INTANGIBLE HERITAGE

2 years production

Progetto «razze bovine autoctone» Banca del Monte di Lombardia

## TANGIBLE AND INTANGIBLE HERITAGE

150 ha of marcita meadows; 10 farmers, 3 years contract

Progetto LIFE Biosource

## AGRONOMIC AND ECONOMIC VALUE

TANGIBLE AND INTANGIBLE HERITAGE  
Cycle path panels  
3 year contract with farmers

## ENVIRONMENTAL VALUE

## CULTURAL VALUE

TANGIBLE HERITAGE  
3 year contract with the farmer  
5 years agreement for the mill restoration

# Marcite meadow\_3 maintenance

After every working season...

Cleaning and repairing artifacts



Cut the grass along the canals



Collecting waste



# Marcite meadow\_ 4 transmission

## INTANGIBLE HERITAGE

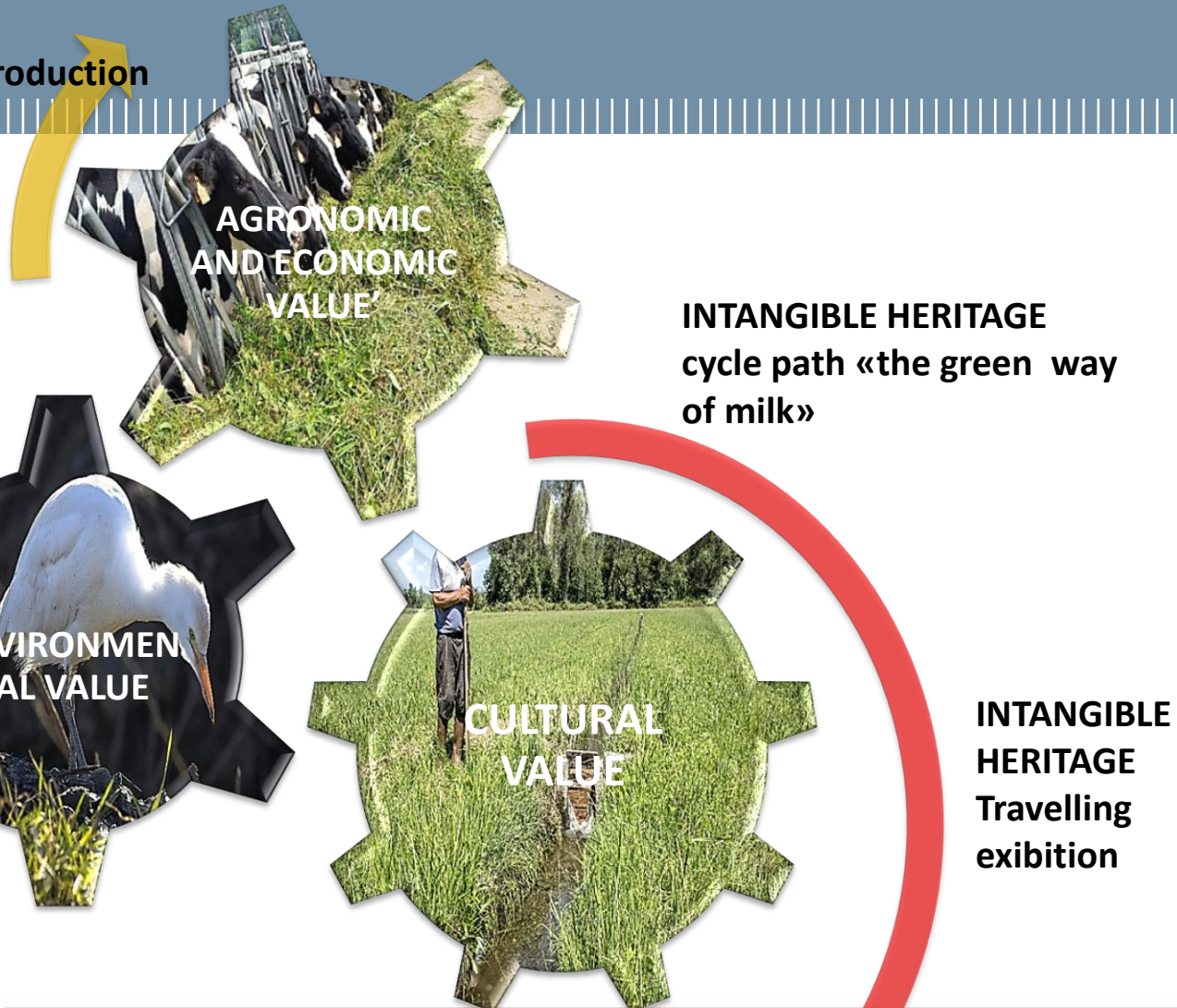
Pedagogical activity for cheese production

Progetto «razze bovine autoctone» Banca del Monte di Lombardia

INTANGIBLE HERITAGE  
Course for new watermen

Progetto LIFE Biosource

Paola Branduini, PaRID lab, ABC Dept



«Landscape of Irrigated meadow of milanese plain»

Candidature to National Register of Historical Rural Landscape

Promoted by Ministry of Agriculture

# Marcite meadows\_4 trasmission



# Opportunities and problems about participation

- Ongoing process helps the long-term care of landscape
  - Allows to involve more people at each step
  - Continuous improvement of the method and technique of people's involvement
  - Improvement of the design solution
  - In case of fail of an actors there are others proponents
- ✓ Continuous work in progress,
  - ✓ Need of repeating; “waste of energy and time”
  - ✓ Risk of change of initial design

# (conclusion) is it possible to make resilient a rural heritage?

Create web-network : myriads of initiatives not connected

Ongoing process: define a continuity by an entertainer/animateur

Involve all level of citizens: from **children** to scholars (foreigners!)  
to overturn the diffused lack on interest of farmers

Thank for your attention!

You are all welcome to see the snow miracle of marcite meadows in wintertime!