IPROMO Ormea (Italy) 8-13 July 2014 The rural family in mountain areas at the time of global changes: adaptation and challenges. An ethnographic view Marcela Olmedo 11 July 2014



Aims

- exploring the characteristics and identifying **features** behind adaptation strategies and processes of adaptation in rural context.

Using Aosta Valley rural environment as a case study the module will cover:

- 1. exploring climate change **Vulnerabilities** and **risks** and **adaptation mechanisms** in farming context: climate observation & scenarios and future developments; its consequences on rural environment.
- 2. exploring climate change adaptation **Options**. Potential adaptation options will be explored by selecting a specific climate impact and / or adaptation sector of interest.
- 3. exploring climate change adaptive **Choices**



Content

Concepts Approaches Case study World café



Content

Concepts Approaches Case study finish by 10:30 World café 10:45-11:45 Discussion 12-13



Concepts Climate change adaptation

Climate change adaptations are the **processes** and **actions** that enable people to **cope** better with increasingly challenging weather and climatic conditions. Adaptations may involve the development or adoption of a **technology**, or it can involve **building capacity** such as improved risk management or knowledge enhancement.

West and Gawith, 2005; Tompkins, E.L., Eakin, H. 2011



Adaptation
Mechanisms
Strategies
Adjustments
Processes
Actions

to cope better



Vulnerability
fragility
weak points

Measured by assessments = analysis of expected impacts, risks and adaptive capacity, measuring the ability to adapt. It is a tool for enabling resource managers to make judgments.

Damage level is development dependent.



Resilience

the capacity of a society to return to its original state after an impact

robustness resistance

tangible - containing walls; efficient alert system; available financial resources; etc

intangible - education; skills; risk awareness; decision power; etc

Mitigation



Adaptation, Vulnerability, Resilience in colloquial language these terms are many times considered as synonyms, opposed, or interchangeable.

"The importance is to find the conceptual links between them"

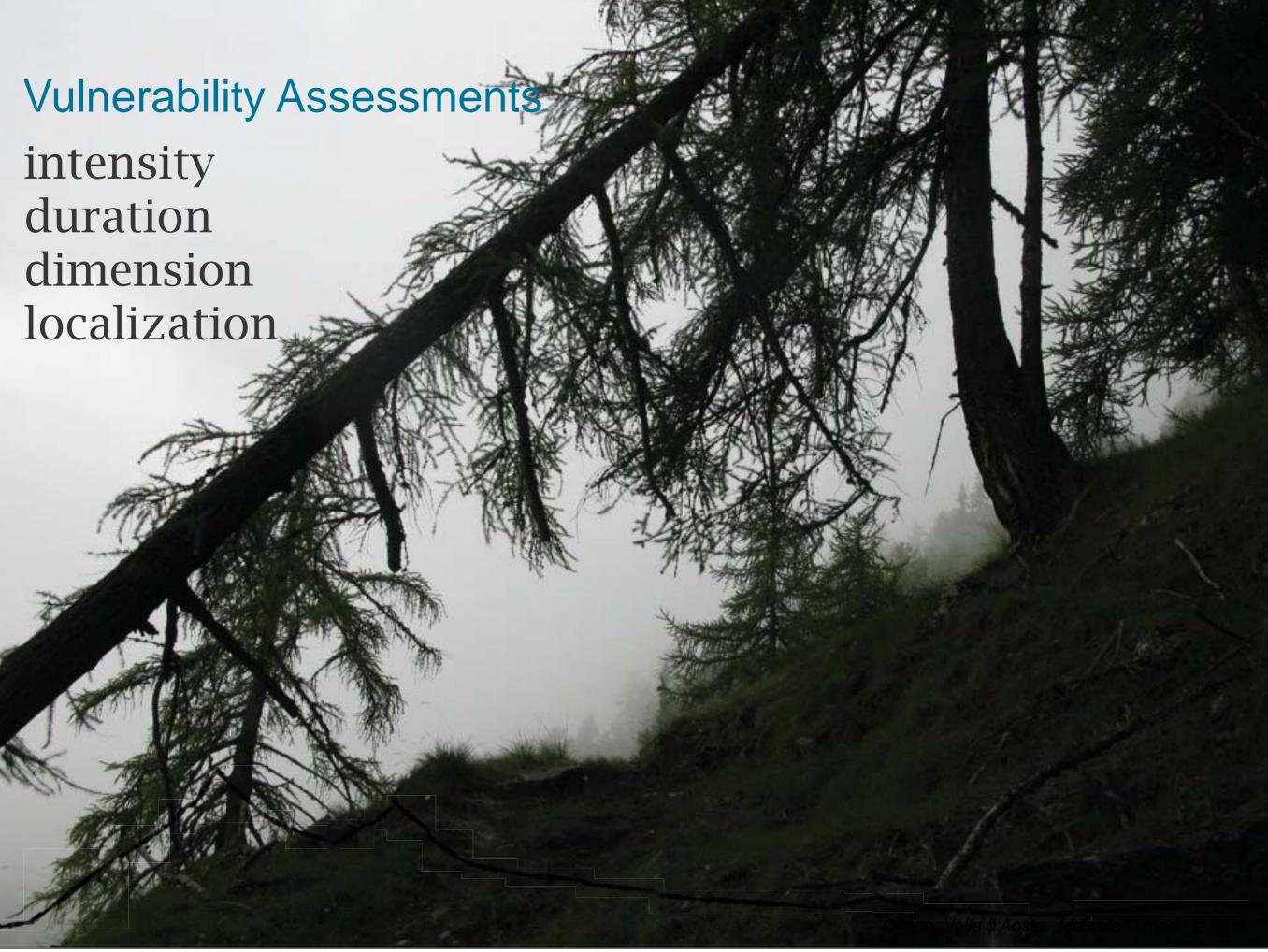


Sustainability

Deriving from Latin (to hold up).

It is about **Sustaining** human human existence: sustained economic, social, political, environmental, spheres.

Sustaining the enormous **challenges** of our time



Vulnerability assessment

Importance of basic data

slow changes, for example, leave enough time to get ready and respond

fast changes leave less time to react

How to capture the Complexity of Adaptation and Resilience

SPATIAL

Mobility, boundaries, areas of availability and frequency of resources

TEMPORAL

Climate change; climatic variability; herding tradition throughout time; land tenure throughout time; cheese making tradition; changes in activities throughout time, availability and frequency of resources



Analysis approach

A "natural" area is multidimensional:

Political dimension = norms and laws

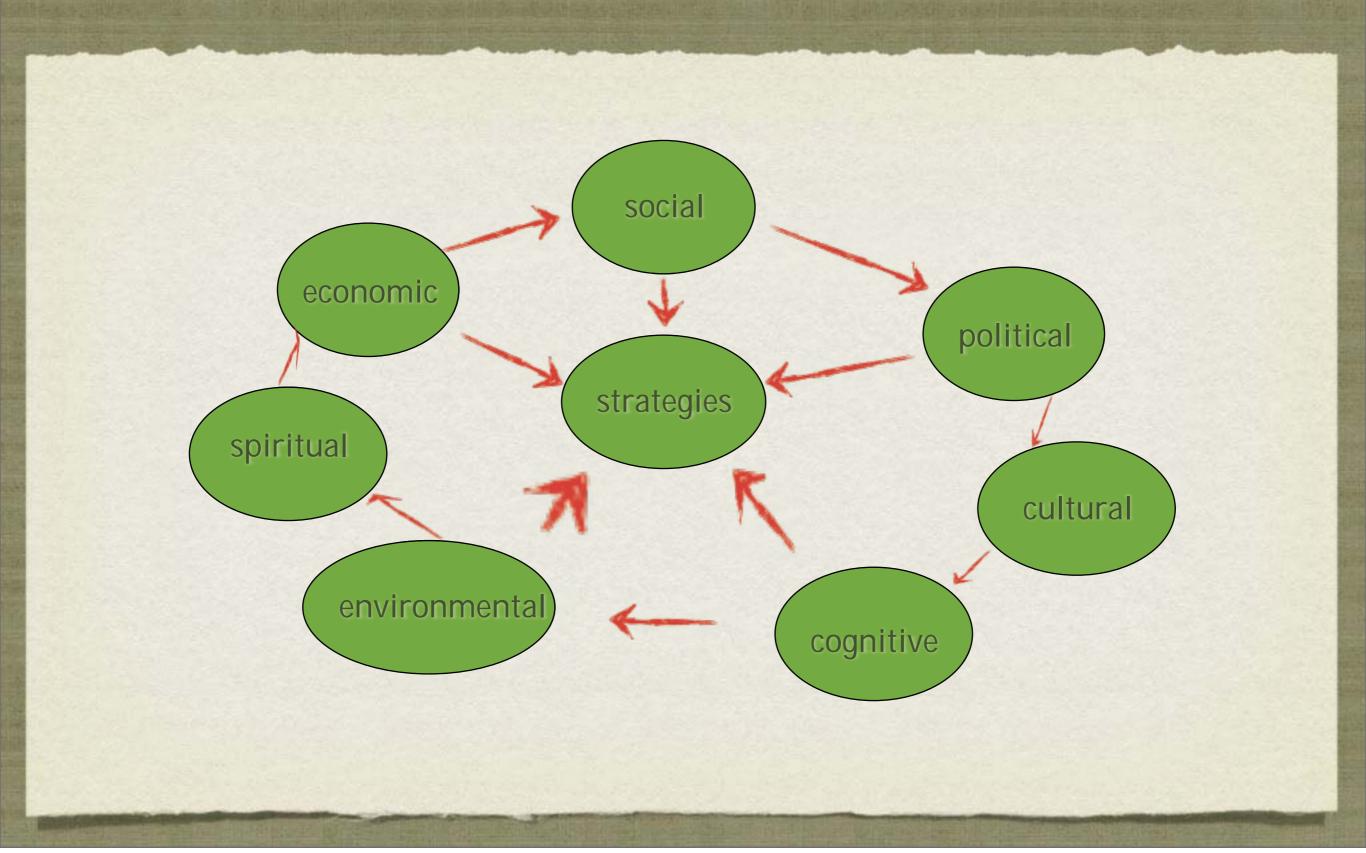
Economic dimension = is ecosystem dependent; relates to subsistence and development

Social dimension = how people organize their space: own ethic codes; social hierarchy, heritage, a "way to do things".

Cultural dimension = geographical space that contains a value of nature; cosmovision of natural territory; toponym; language.

Spiritual perspective = relates the spiritual dimension with the earthy dimension; the holy space; rituals; beliefs related to nature.

Conceptual framework





Analysis approach

Not to document,

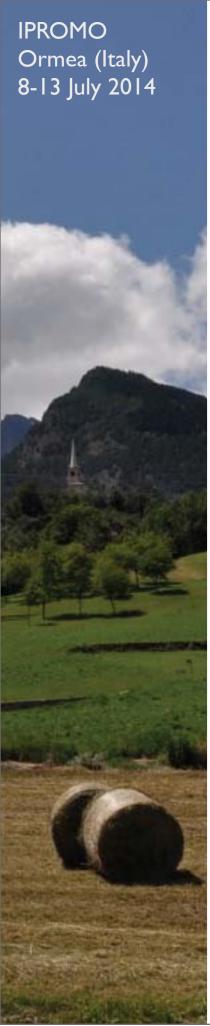
but to understand processes

Weather and Climate Changes in Aosta Valley





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Past and projected impacts of climate change in European regions

Arctic Northern Europe Temperature rise much larger than global Temperature rise much larger than global average Decrease in snow, lake and river ice cover average Decrease in Arctic sea ice coverage Increase in river flows Decrease in Greenland ice sheet Northward movement of species Decrease in permafrost areas Increase in crop yields Increasing risk of biodiversity loss Decrease in energy demand for heating -100 100 300 Intensified shipping and exploitation of oil Increase in hydropower potential and gas resources Increasing damage risk from winter storms Increase in summer tourism North-western Europe Increase in winter precipitation Mountain areas Increase in river flow Temperature rise larger than European average Northward movement of Decrease in glacier extent and volume species Decrease in mountain permafrost areas Decrease in energy demand Upward shift of plant and animal species for heating Increasing risk of river and High risk of species extinction in Alpine regions coastal flooding Increasing risk of soil erosion Decrease in ski tourism Coastal zones and regional seas Sea-level rise Central and eastern Europe Increase in sea surface Increase in warm temperature extremes temperatures Decrease in summer precipitation Increase in ocean acidity Increase in water temperature Northward expansion of fish Increasing risk of forest fire and plankton species Decrease in economic value of forests Changes in phytoplankton communities Increasing risk for fish stocks Mediterranean region Temperature rise larger than European average Increasing water demand for agriculture Expansion of habitats for southern Decrease in annual precipitation Decrease in crop yields disease vectors Increasing risk of forest fire Decrease in annual river flow Decrease in hydropower potential Increasing risk of biodiversity loss Increase in mortality from heat waves Decrease in summer tourism and

Source: European Environment Agency http://www.eea.europa.eu/data-and-maps/figures/key-past-and-projected-impacts-and-effects-on-sectors-for-the-main-biogeographic-regions-of-europe-3

potential increase in other seasons

Increasing risk of desertification

Extreme events

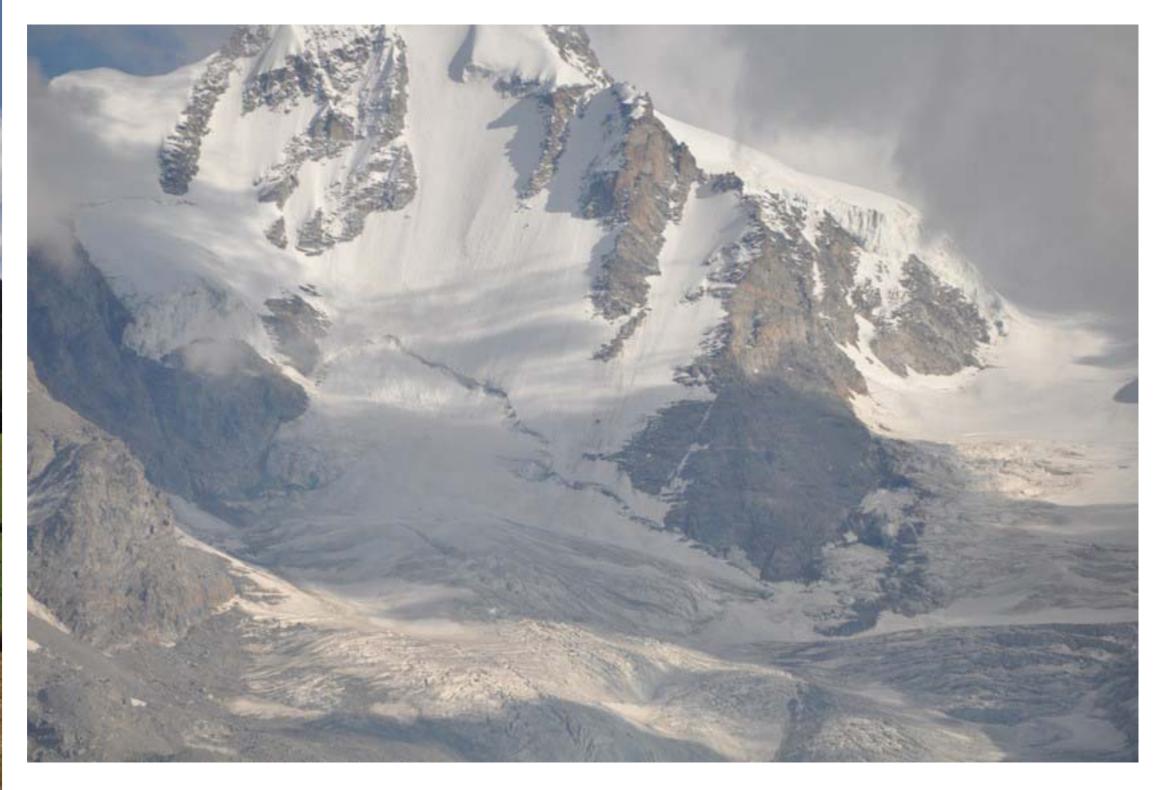


Bionaz, Valle d'Aosta. Marcela Olmedo © 2011

Will be more and more common and intense, threatening those who depend on mountain resources.

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Scarce snow; intense and concentrated rain; high temperatures

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Vulnerability

Agriculture is a weather/climate and water linked activity. Hence, it can become more vulnerable as events becomes more extreme.

Scarce snow; intense and concentrated rain; high temperatures

2 giugno Valsavarenche, Valle d'Aosta. Marcela Olmedo © 2011





Rural world and Challenges

Challenges presented by climate change in mountain ecosystems around the world include

water resources, glaciers, natural hazards, biodiversity, food security, migration



The EU Adaptation Strategy has three objectives.

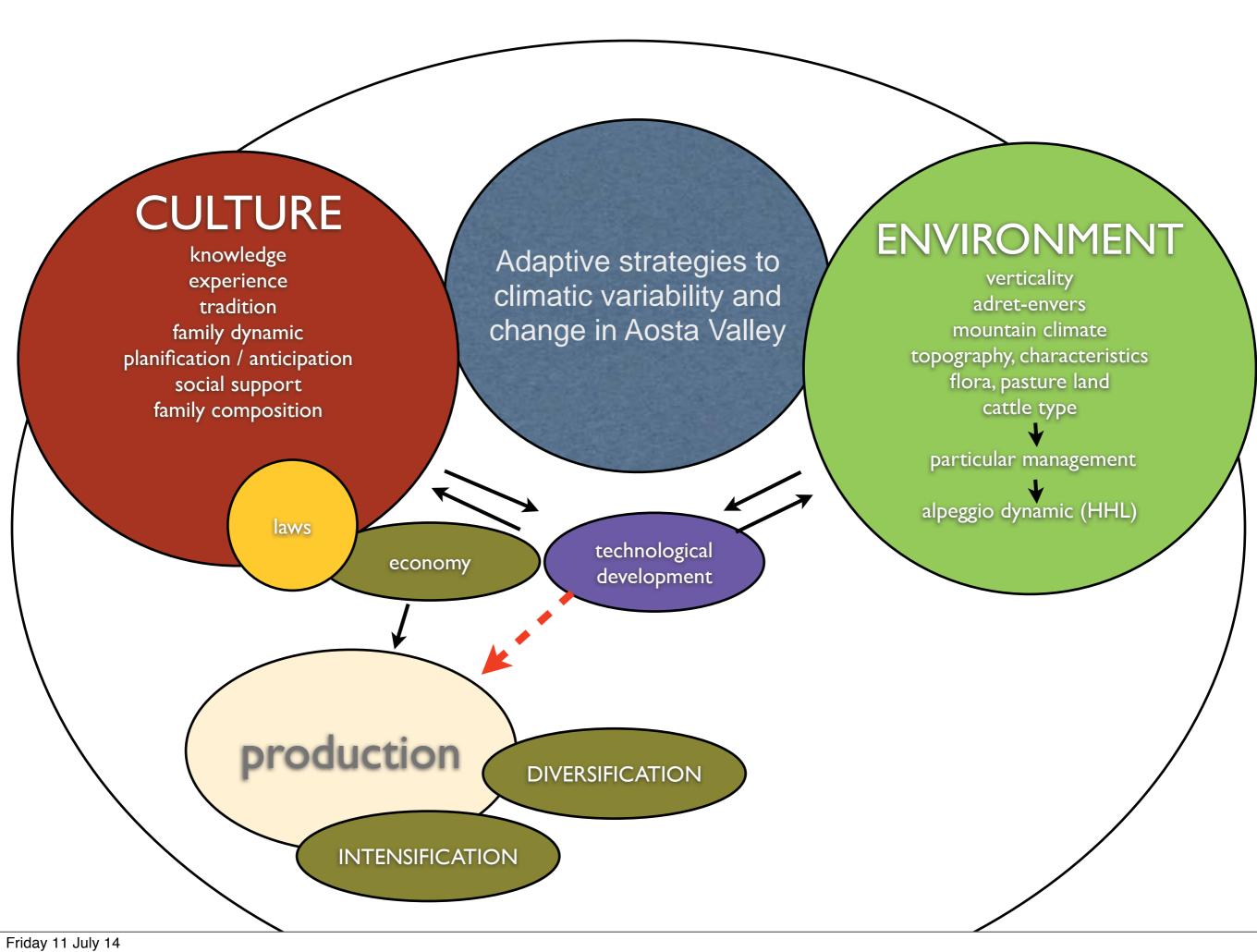
1. Promoting action by Member States:

The Commission encourages all Member States to adopt comprehensive adaptation strategies and will provide guidance and funding to help them build up their adaptation capacities and take action. The Commission will also support adaptation in cities by launching a voluntary commitment based on the Covenant of Mayors initiative.

- **2. Promoting better informed decision-making** by addressing gaps in knowledge about adaptation and further developing the European Climate Adaptation Platform (Climate-ADAPT) as the 'one-stop shop' for adaptation information in Europe.
- **3. Promoting adaptation in key vulnerable sectors** through agriculture, fisheries and cohesion policy, ensuring that Europe's infrastructure is made more resilient, and encouraging the use of insurance against natural and man-made disasters.

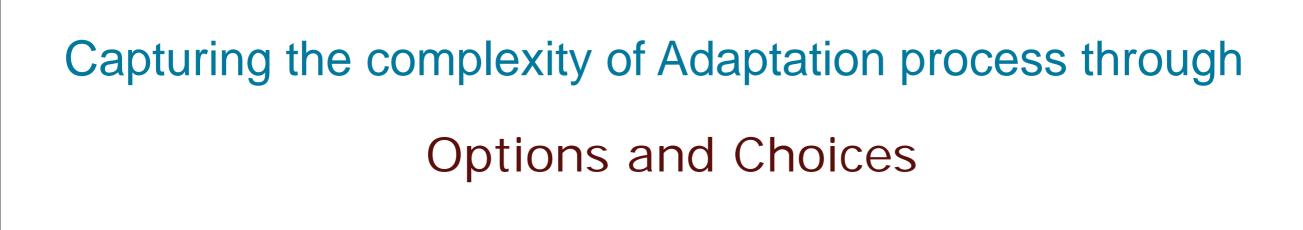
Implementation of the EU Adaptation Strategy is based on eight actions

- 1. Encourage all Member States to adopt comprehensive adaptation strategies
- 2. Provide LIFE funding to support capacity building and step up adaptation action in Europe (2014-2020)
- 3. Introduce adaptation in the Covenant of Mayors framework (2013/2014)
- 4. Bridge the knowledge gap
- 5. Further develop Climate-ADAPT as the 'one-stop shop' for adaptation information in Europe
- 6. Facilitate the climate-proofing of the Common Agricultural Policy (CAP), the Cohesion Policy and the Common Fisheries Policy (CFP)
- 7. Ensuring more resilient infrastructure
- 8. Promote insurance and other financial products for resilient investment and business decisions



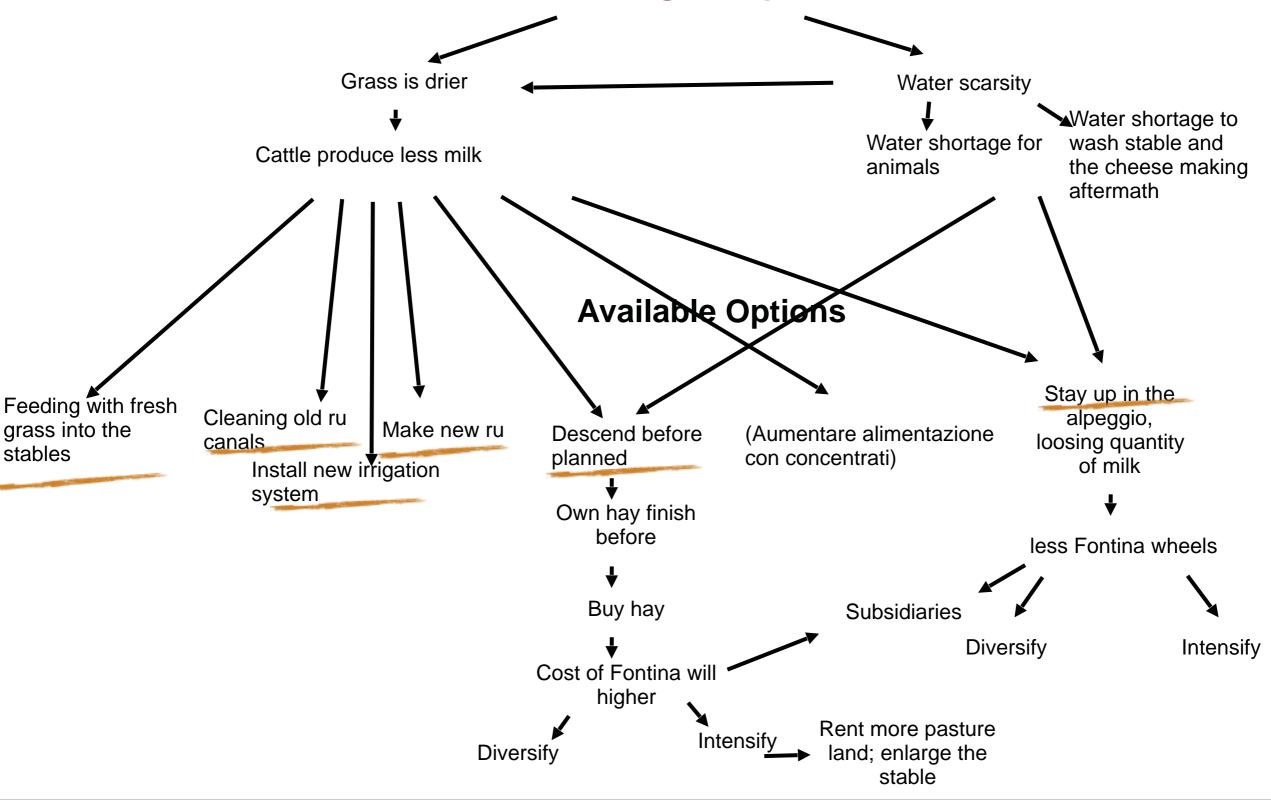


Coping strategies in Valle d'Aosta



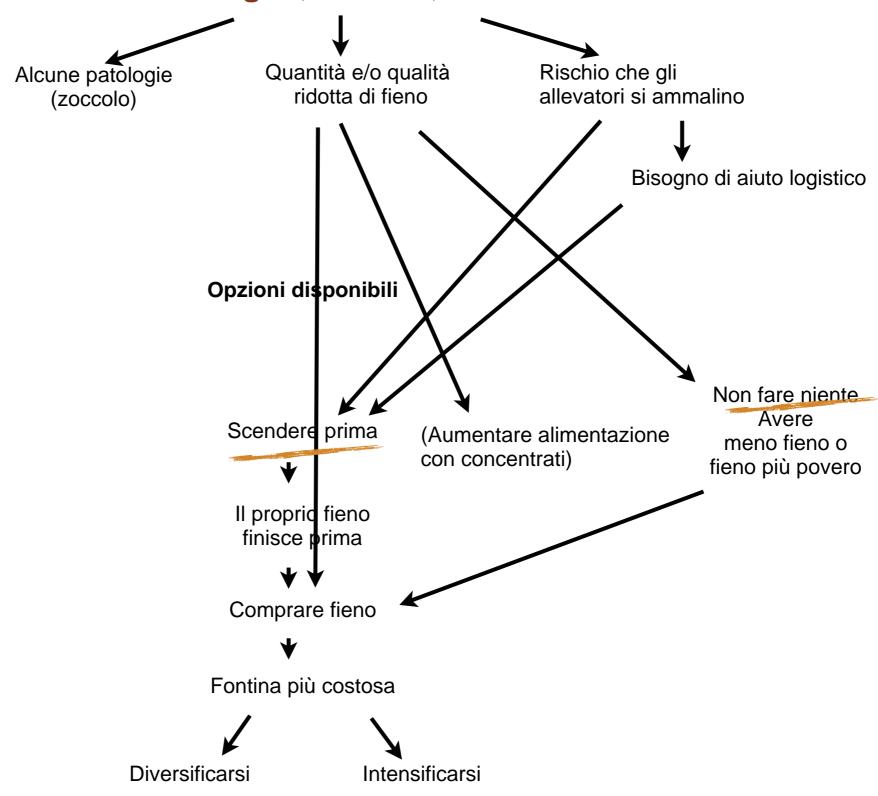
Available Options

Summer with high temperatures



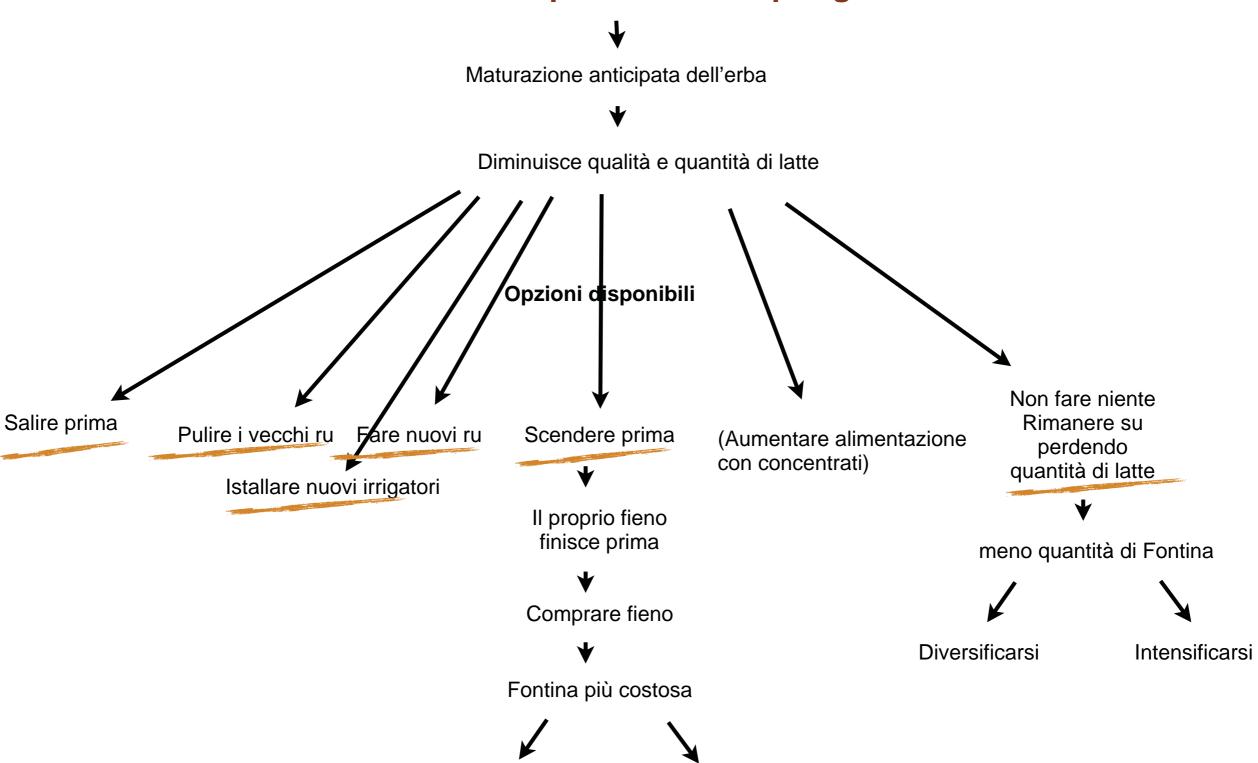
Available Options

Prolonged; Intense, Concentrated rain



Available Options

Anticipation of the Spring



Intensificarsi

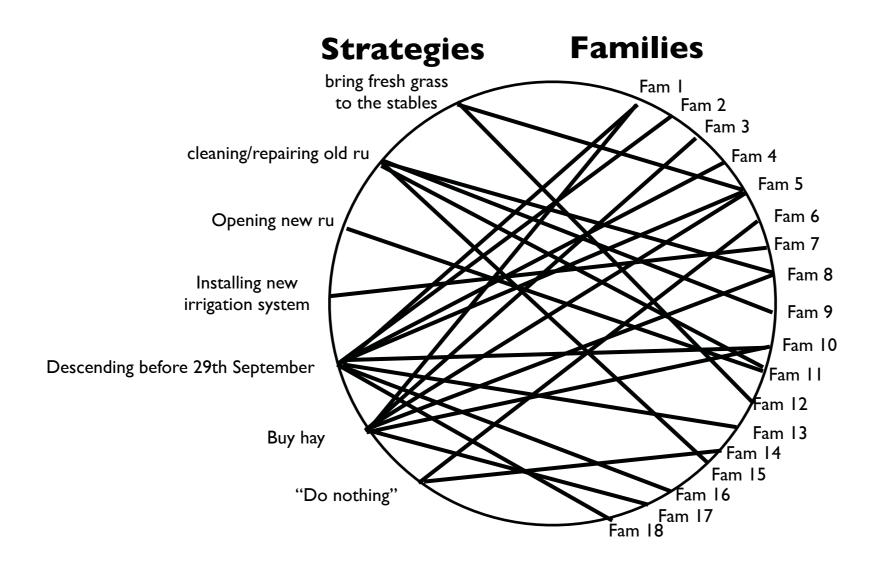
Diversificarsi

Available Options

Posticipated Events (snow in June)



Strategies adopted during summer 2003 (of high water shortage)



Perception and Immediate strategies towards climatic variability

- Some grass species are disappearing;
- Weather unpredictable;
- Anticipation of the spring (more summer days eating fresh grass);
- Changes in water availability: water scarcity Cambiamento nella disponibilità di acqua; changes in



Perception and Immediate strategies towards climatic variability

- Perception that pasture lands need to be watered more often or more abundant;
- Weather forecast prevalence between observation of the ravens or wild deers, indicating bad weather 2. local TV; 3. internet (sons/daughters)



Perception and Immediate strategies towards climatic variability

- Less snow;
- Winds are stronger or sometimes last for more days than usual;





Similar Case Study

Vulnerability

Scarce grasslands. Climate: haze and ice cover, rain, snow, thunderstorms and cold. Fast temperature shift. Water scarcity.

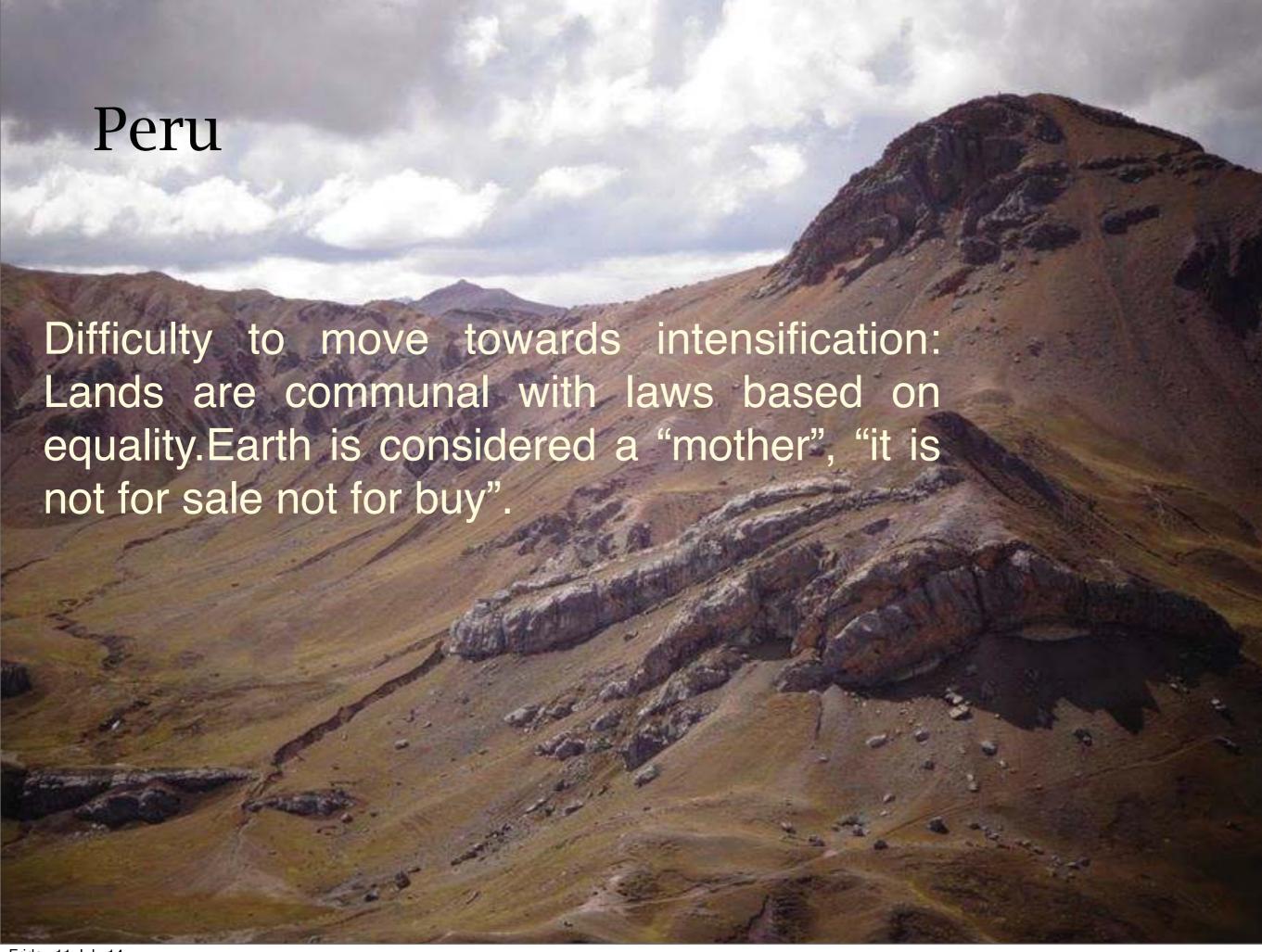


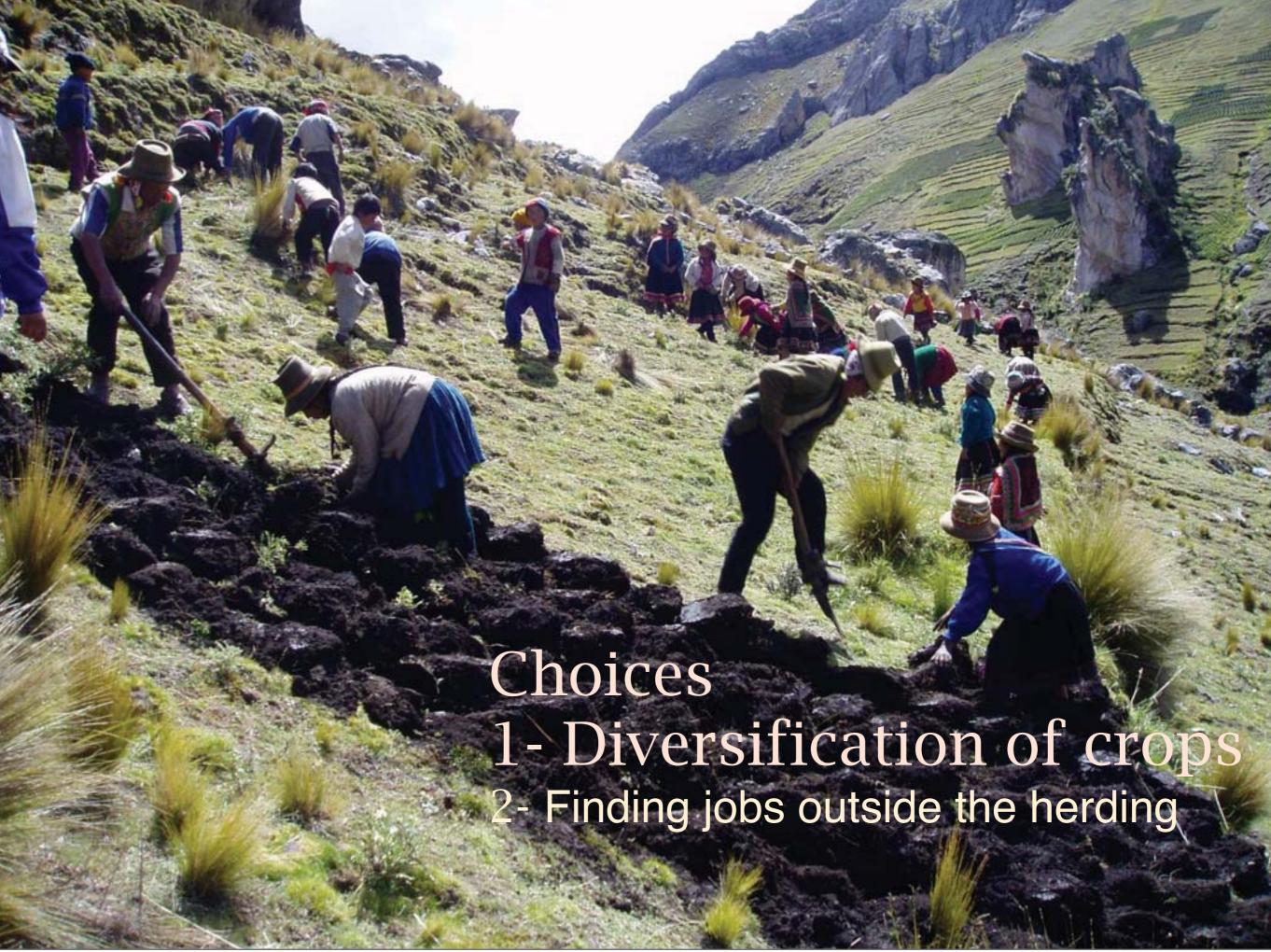
Paropata, Perù. Valentin Ccasa Champi © 2012



Peru, altiplano: Options

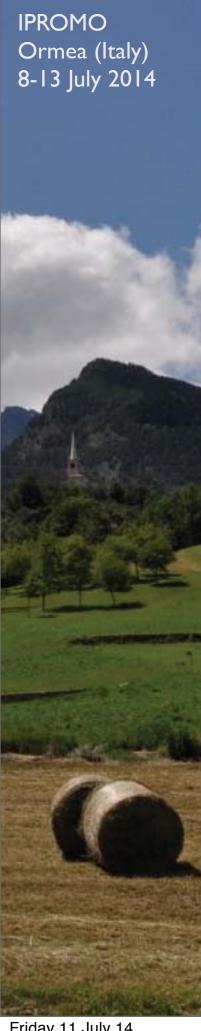
- Plant bushes or cover the terrain
- Diversification of crops
- Go down to other ecological niches
- Diversifying incomes (wool; tourism)







Adaptation around the world



- High mobility, splitting the herd, social networking (kinship) In Turkana District, Kenya (Mccabe 2004).
- Diversifying landscape and animals; flexibility. In Norway / Saami (Tyler et al. 2007).
- Diversification: cultivation, wage labour, small business, moving the livestock over very large areas of land. In Kejiado district, Kenya and diversed cultivation Ngorongoro C.A, Tanzania (Thornton et al 2007).
- Selecting herd composition by age/sex. For cultural display herd maintained large; In S.Africa / communal vs commercial land tenure (Thornton et al 2007).
- Through "cow and kin" system of exchanging labour and products; HH subsistence production. In Siberia / Sakha (Crate 2009; 2006).
- Timing, location, methods of harvesting animals, globalized technological equipment. In Arctic / Inuit (Henshaw 2009).



- a. Diversified resource base
- b. Change in varieties and species
- c. Change in the timing of activities
- d. Change of techniques
- e. Change of location
- f. Changes in resources and/or life style
- g. Resource management

Salick and Byg 2007



Motivation

Aesthetics - cattle features Comfort/Accessibility herder age vs race Wealth display - black vs red cattle

Tradition - Stars; superstitions

Spiritual - Saints; Stars; superstitions

Networking / Labour force

Relatives; family; friends availability



Adaptation in Valle d'Aosta

Adaptation through genetic selection of cattle Adaptation to water availability Adaptation to the exploitation of vertical ecological niches *(tramuto)*

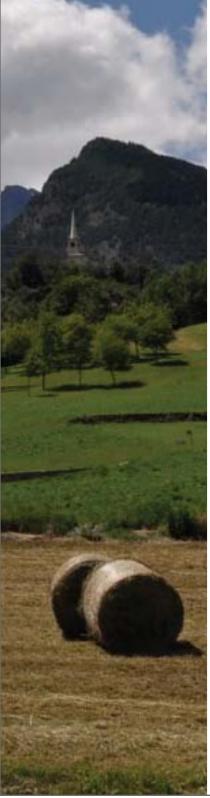
Adaptation to the vertical exploitation of resources (transhumance)

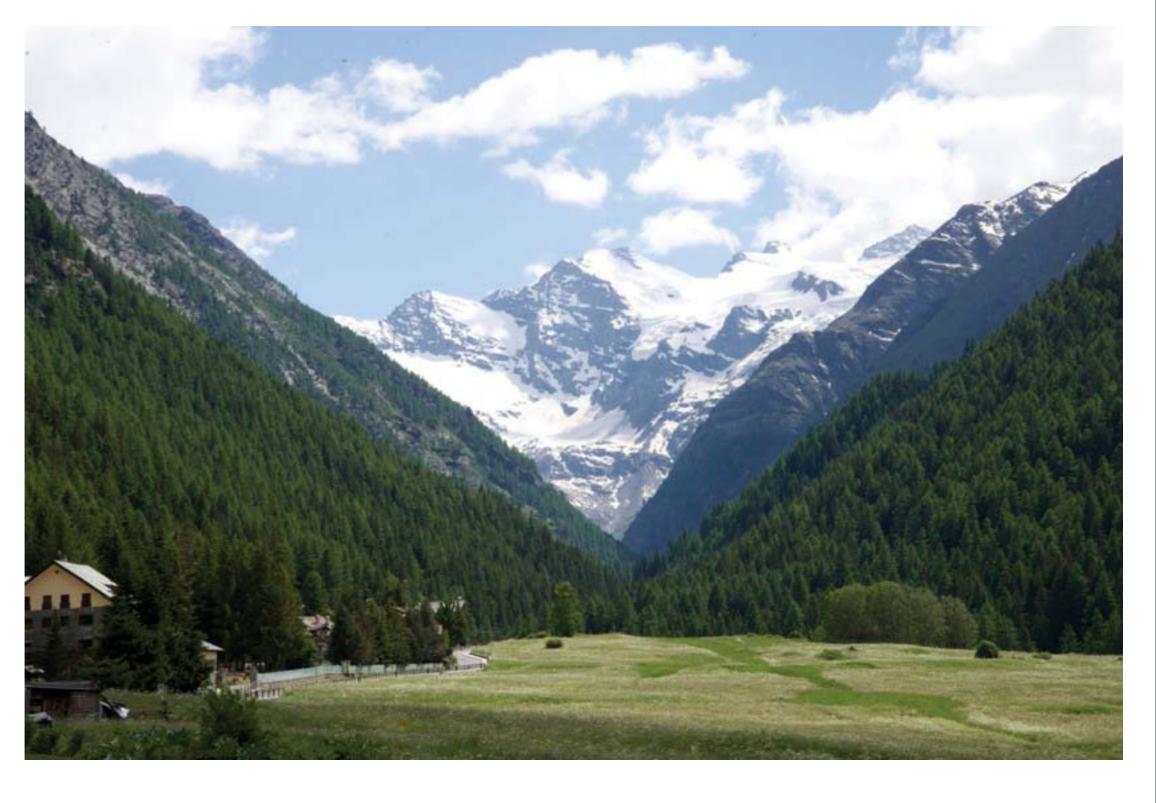
Vulnerability: availability and accessibility of grass



Bionaz, Valle d'Aosta. Marcela Olmedo © 2011

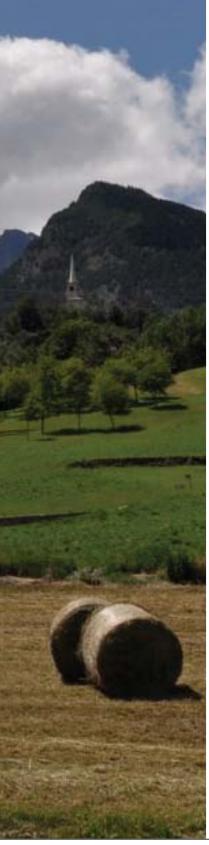
Verticality





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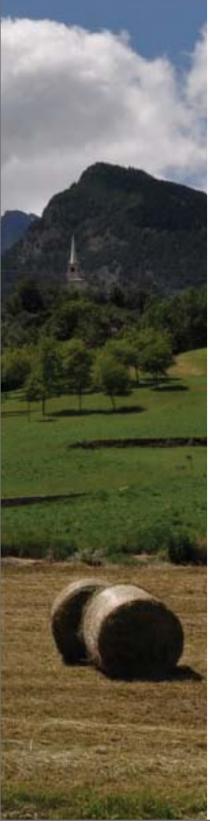




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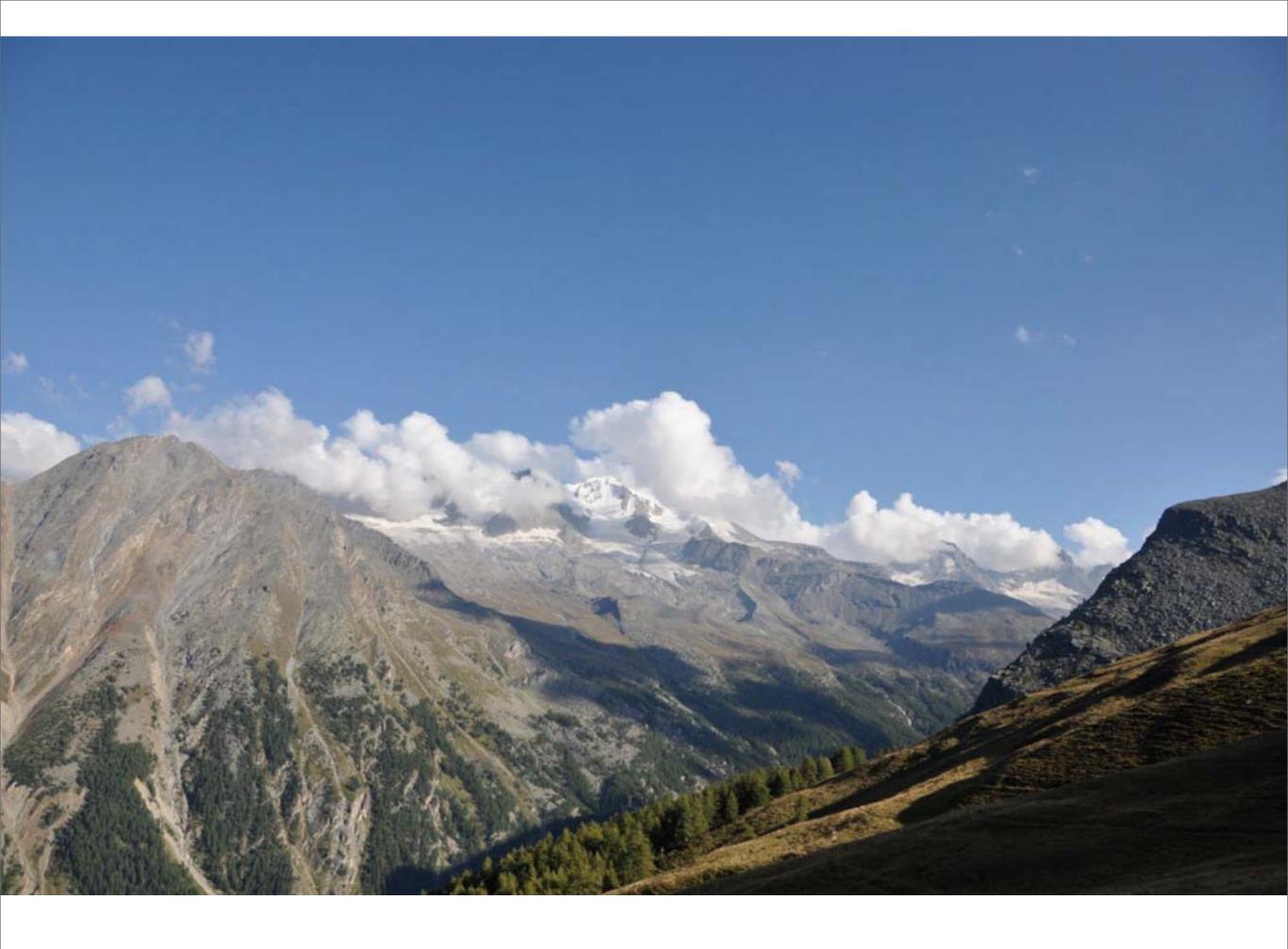
IPROMO Ormea (Italy) 8-13 July 2014

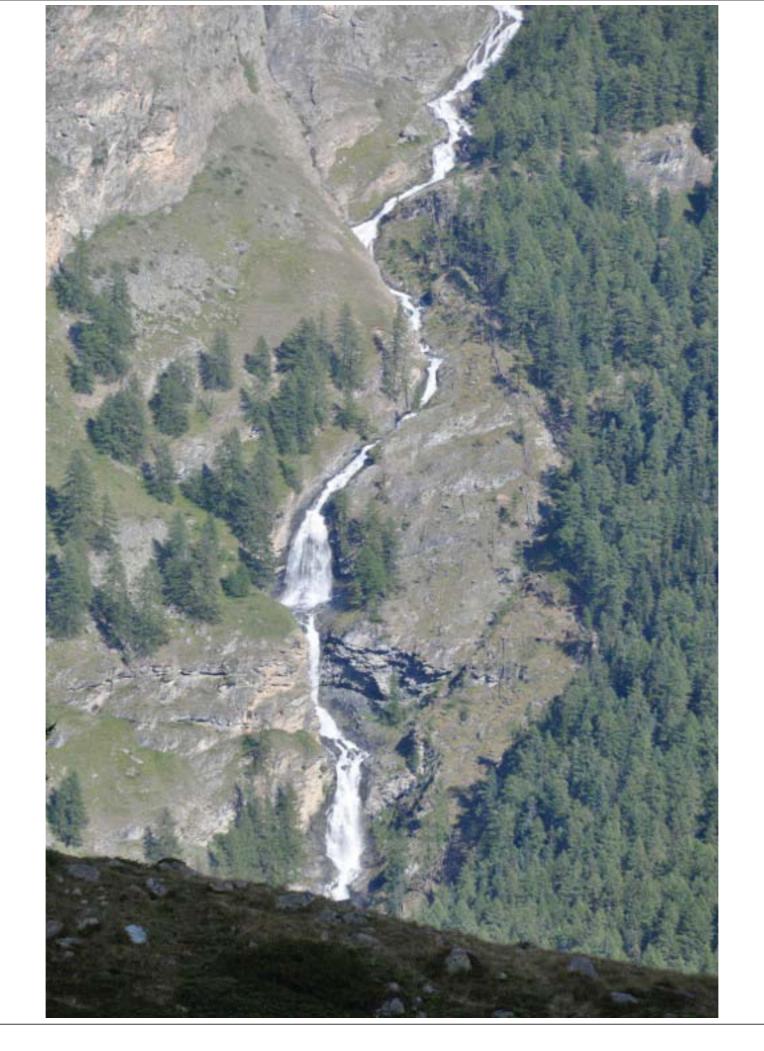
Adaptation to Weather and Climate Changes in Aosta Valley



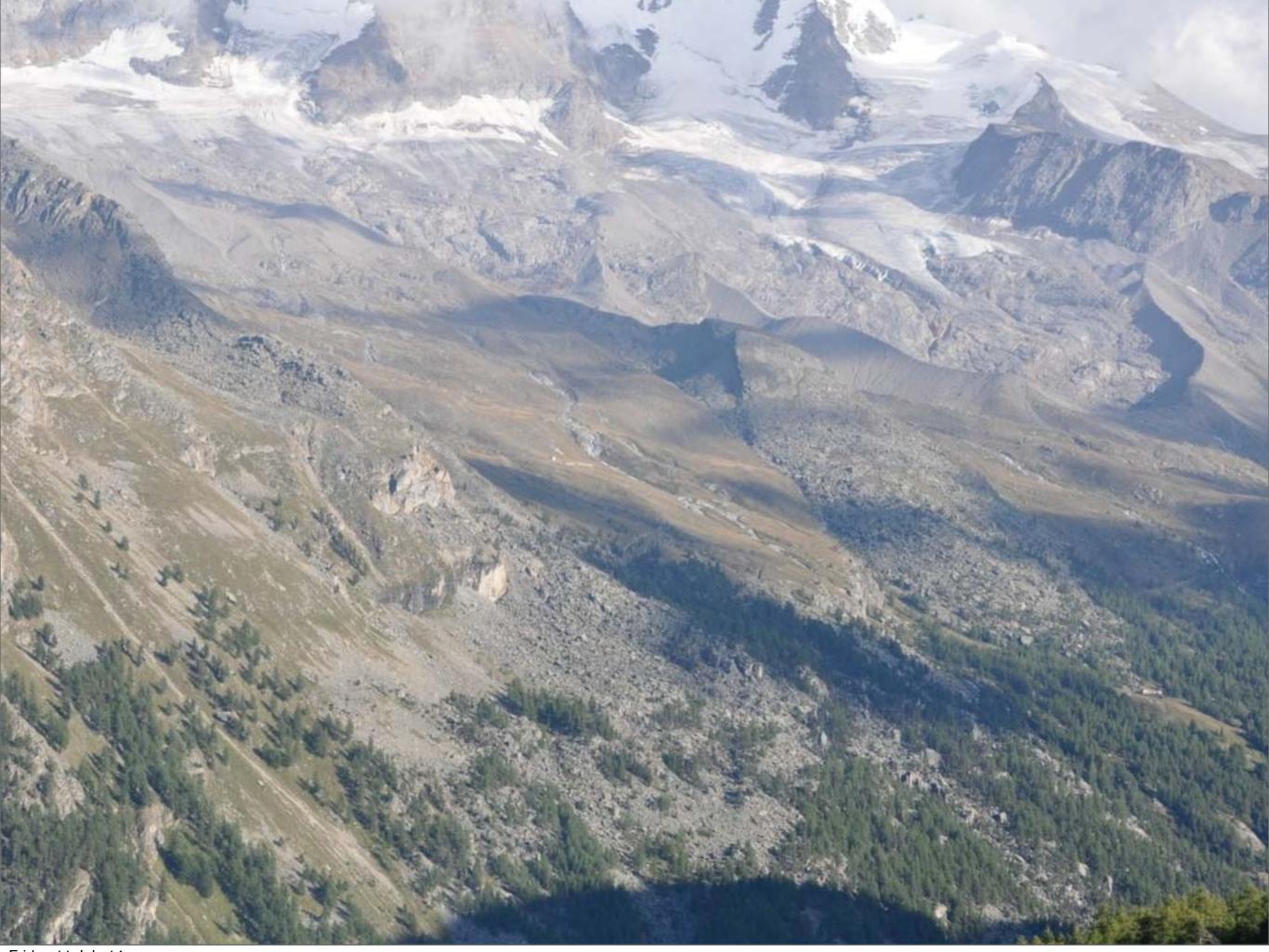


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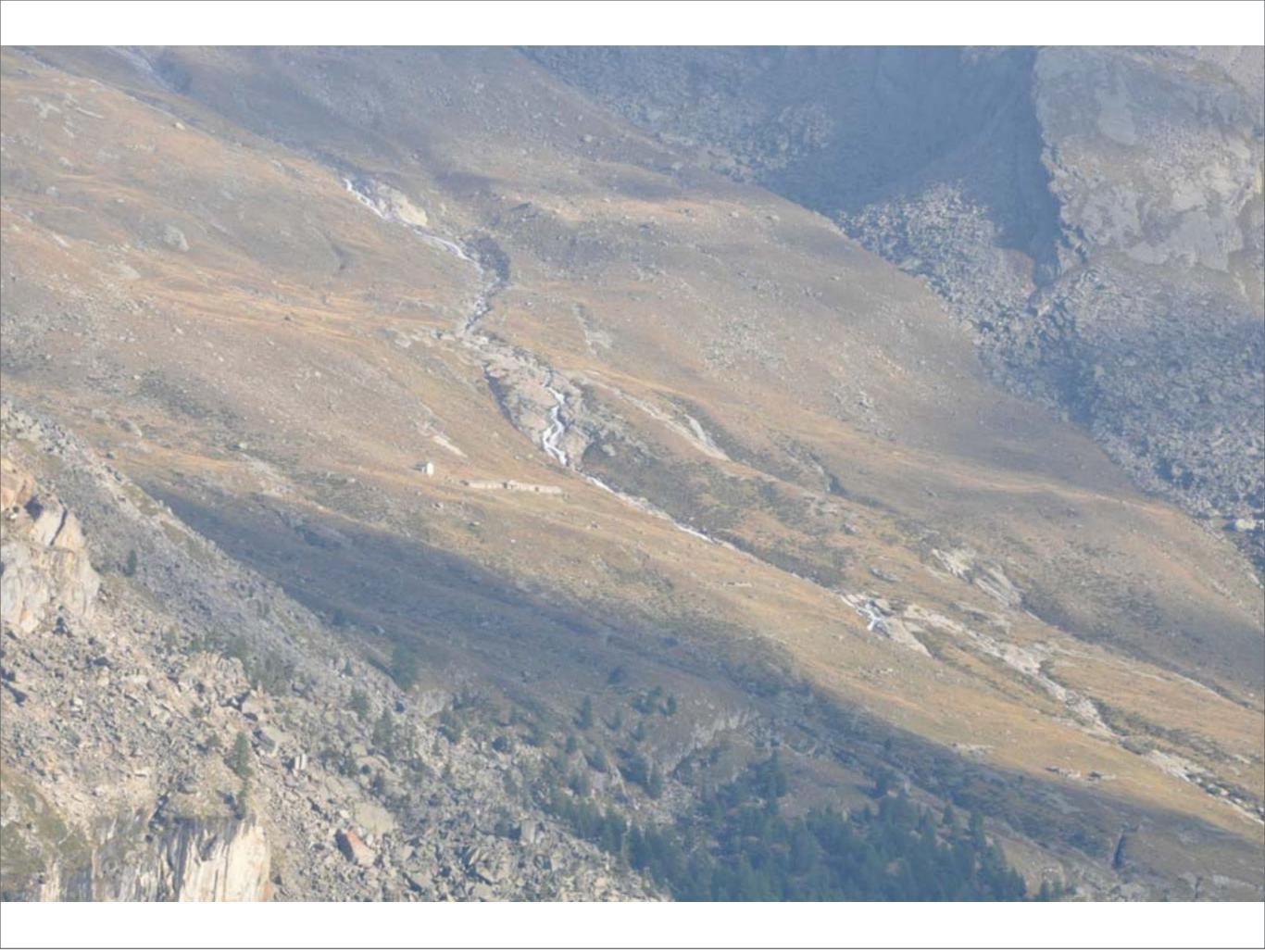




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Alpeggi



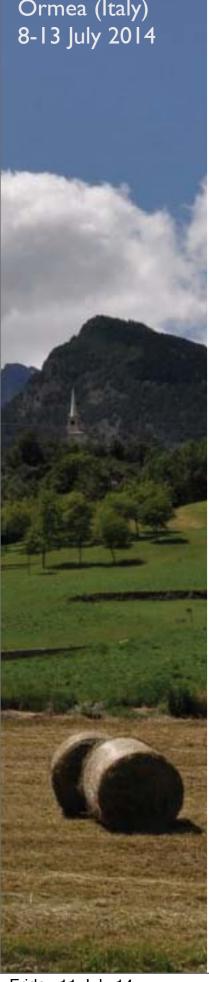


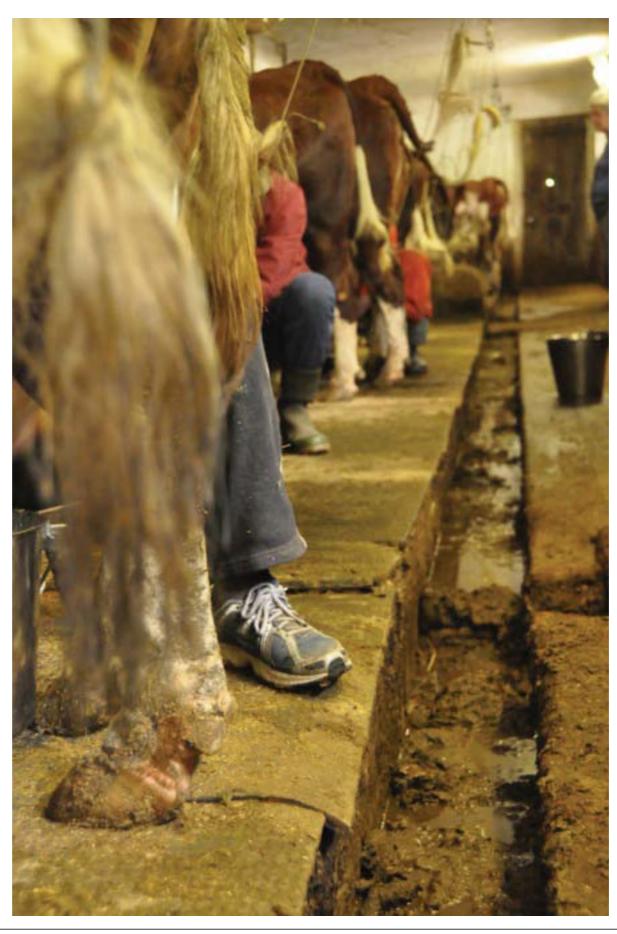
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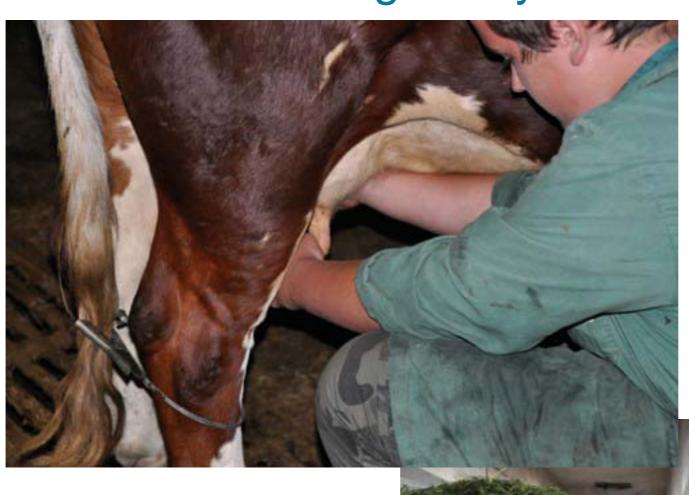
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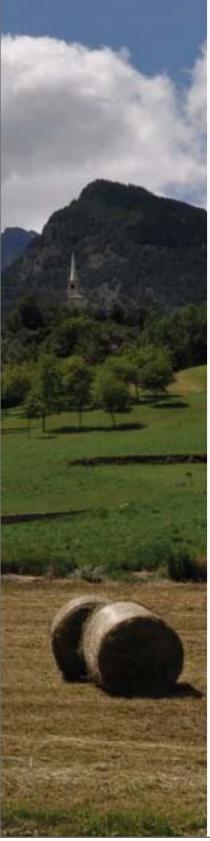








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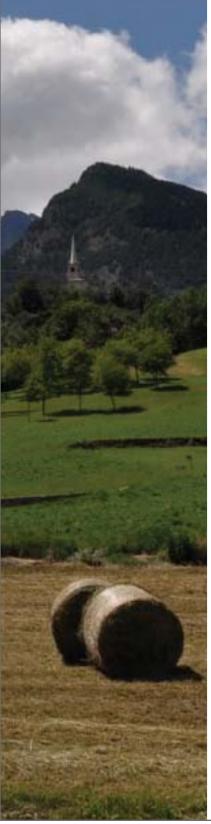


Women's role

"Our work is invisible"



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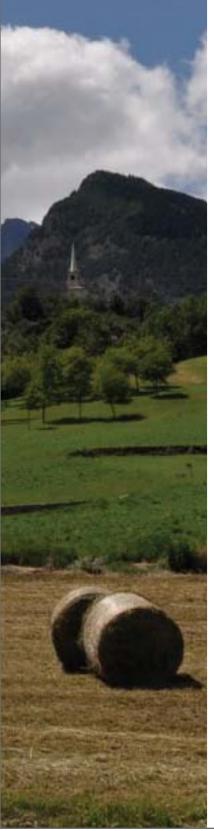


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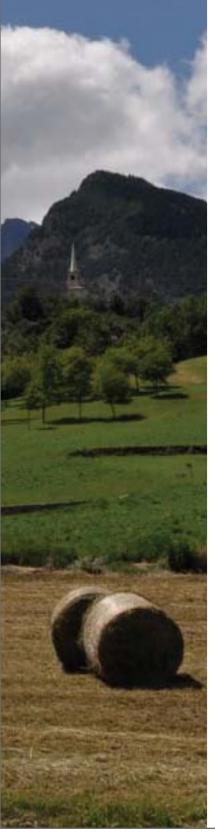


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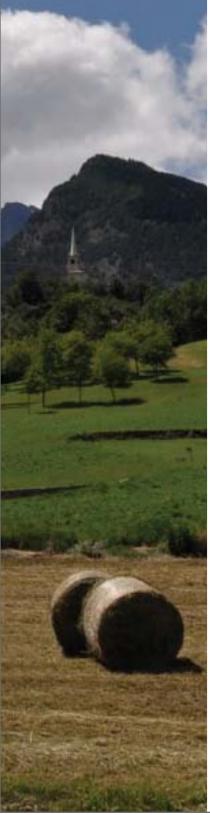


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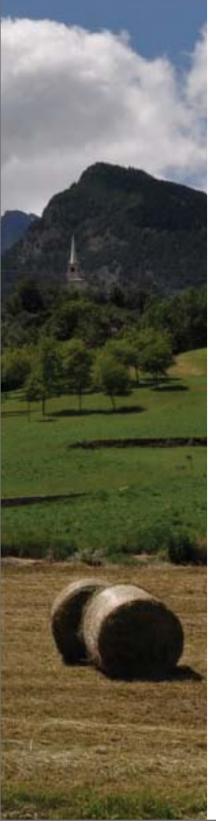


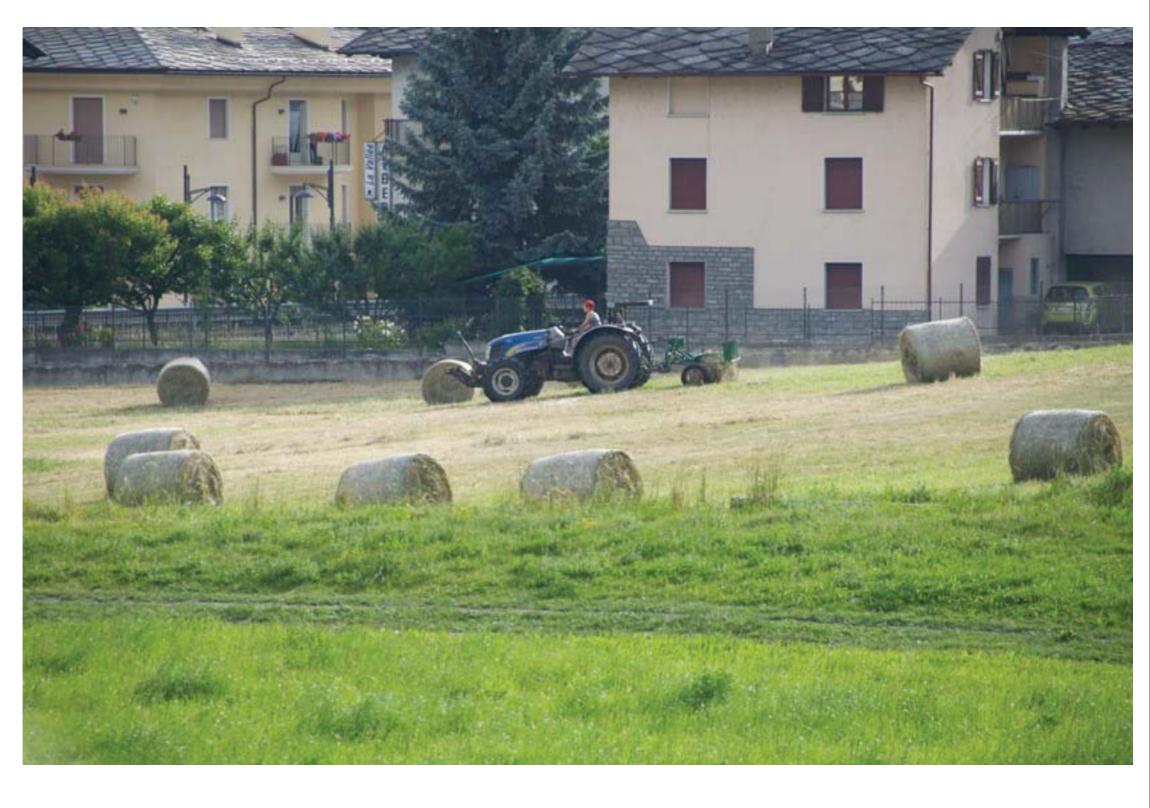
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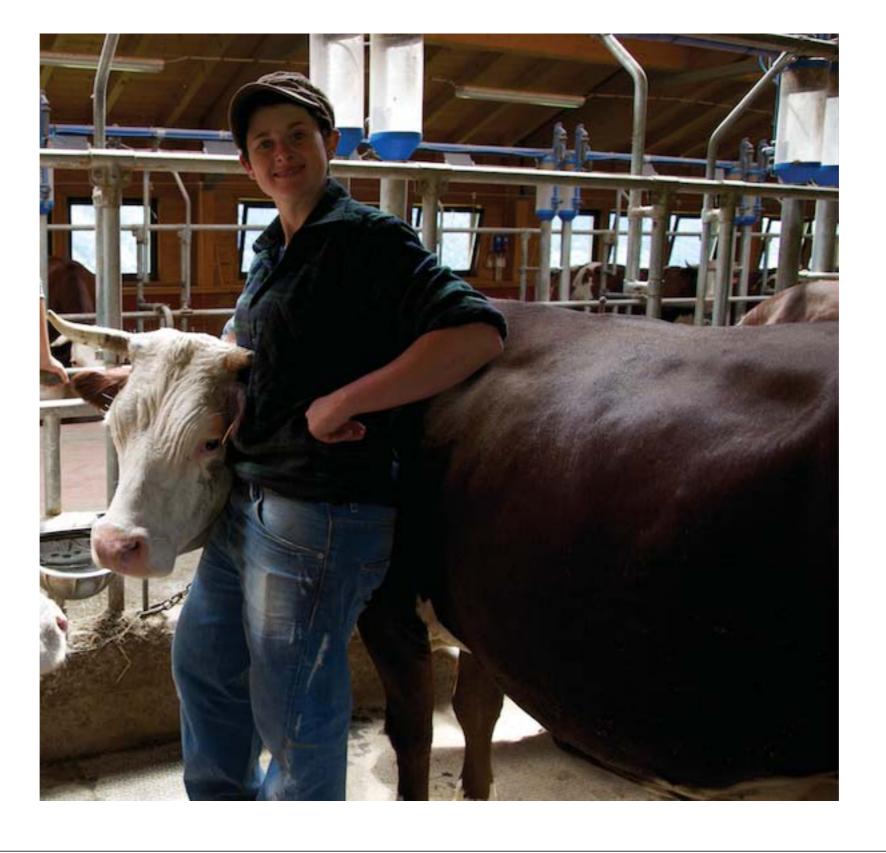
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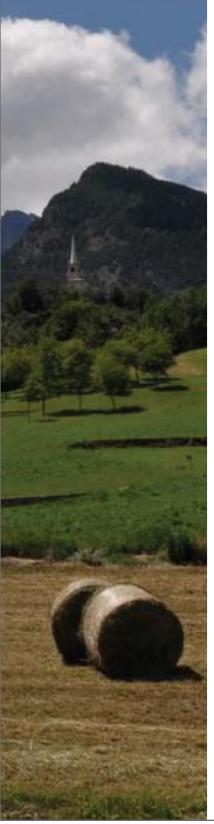


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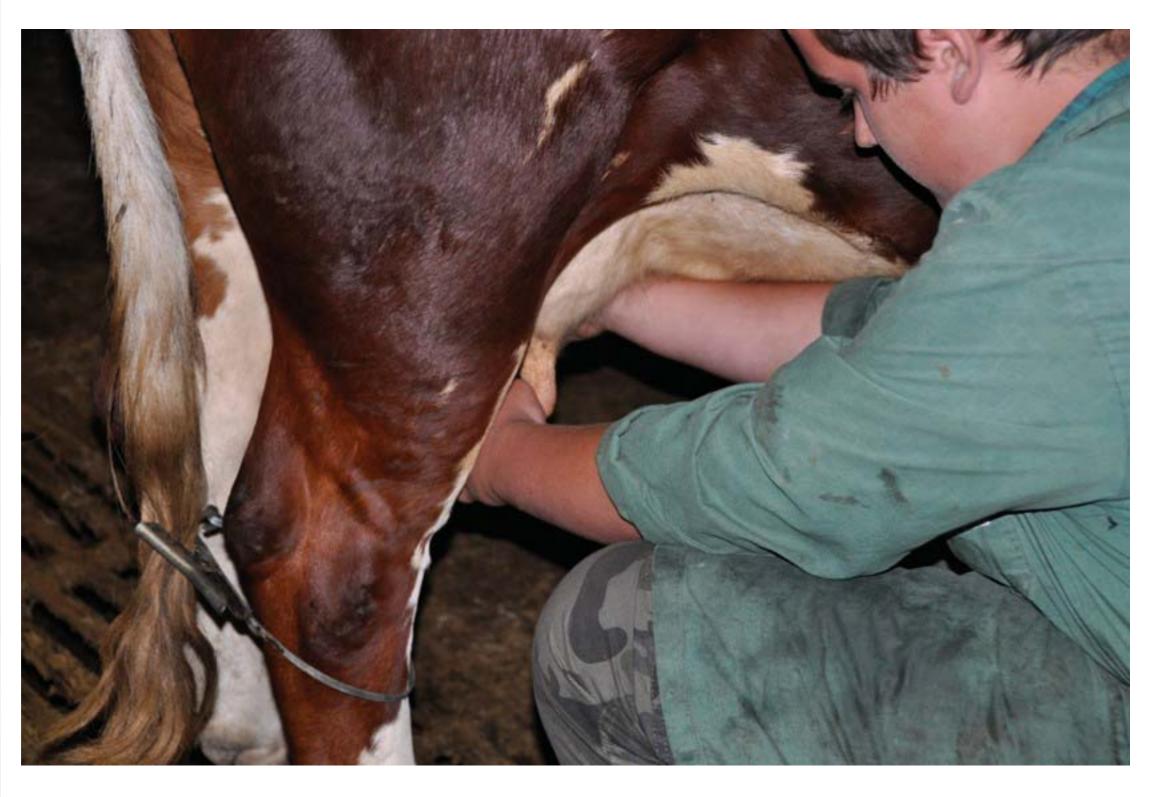
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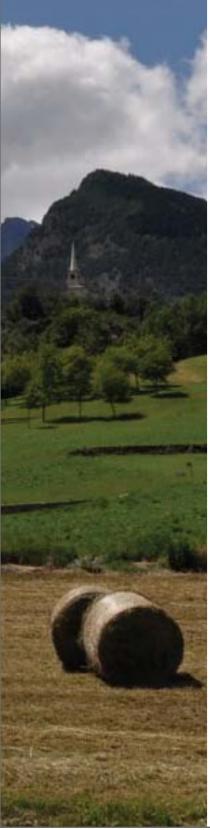


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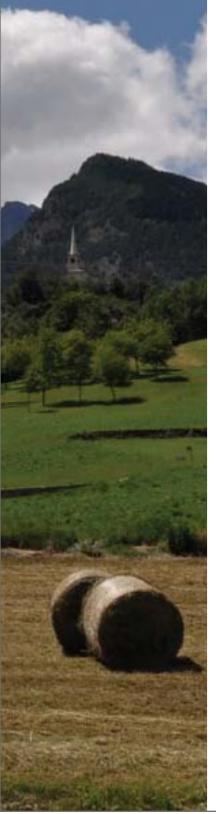


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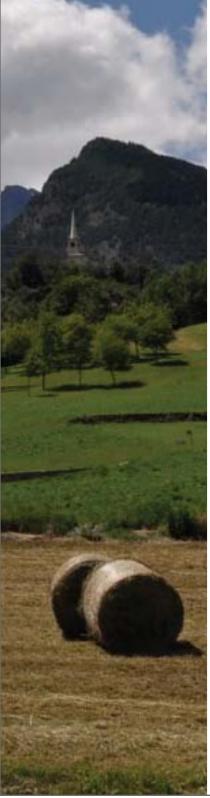


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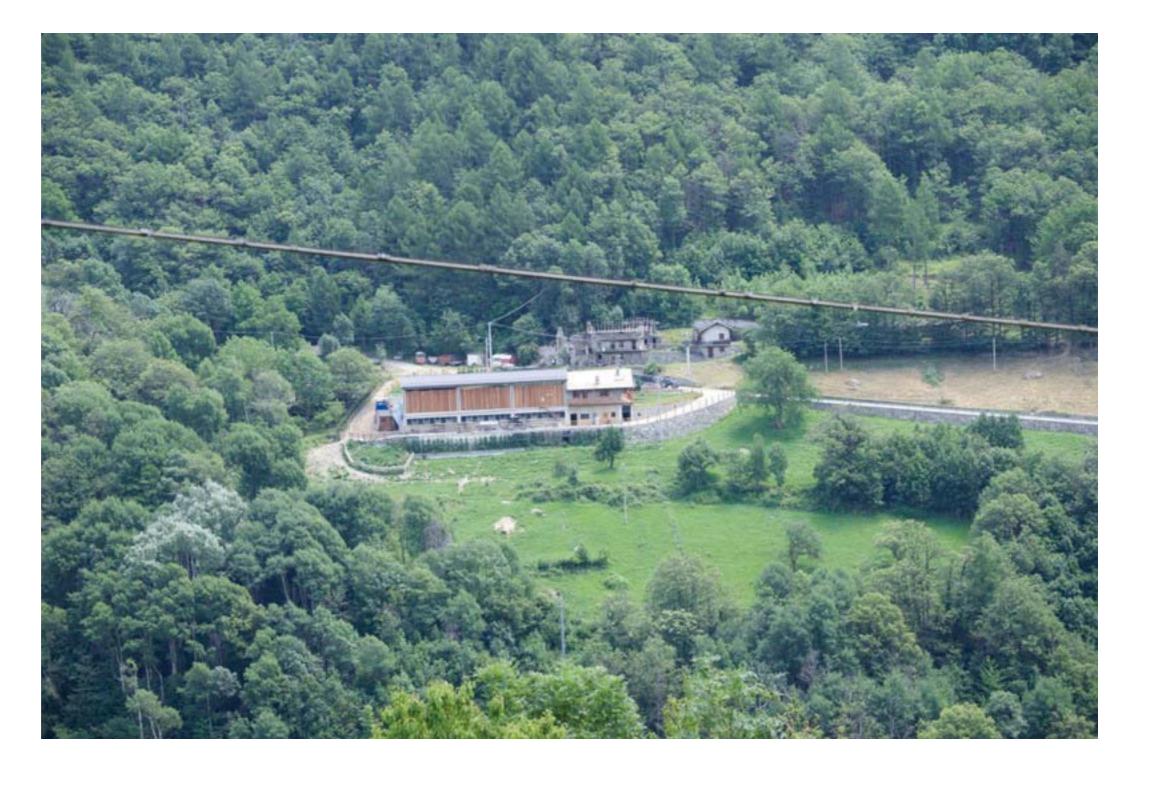




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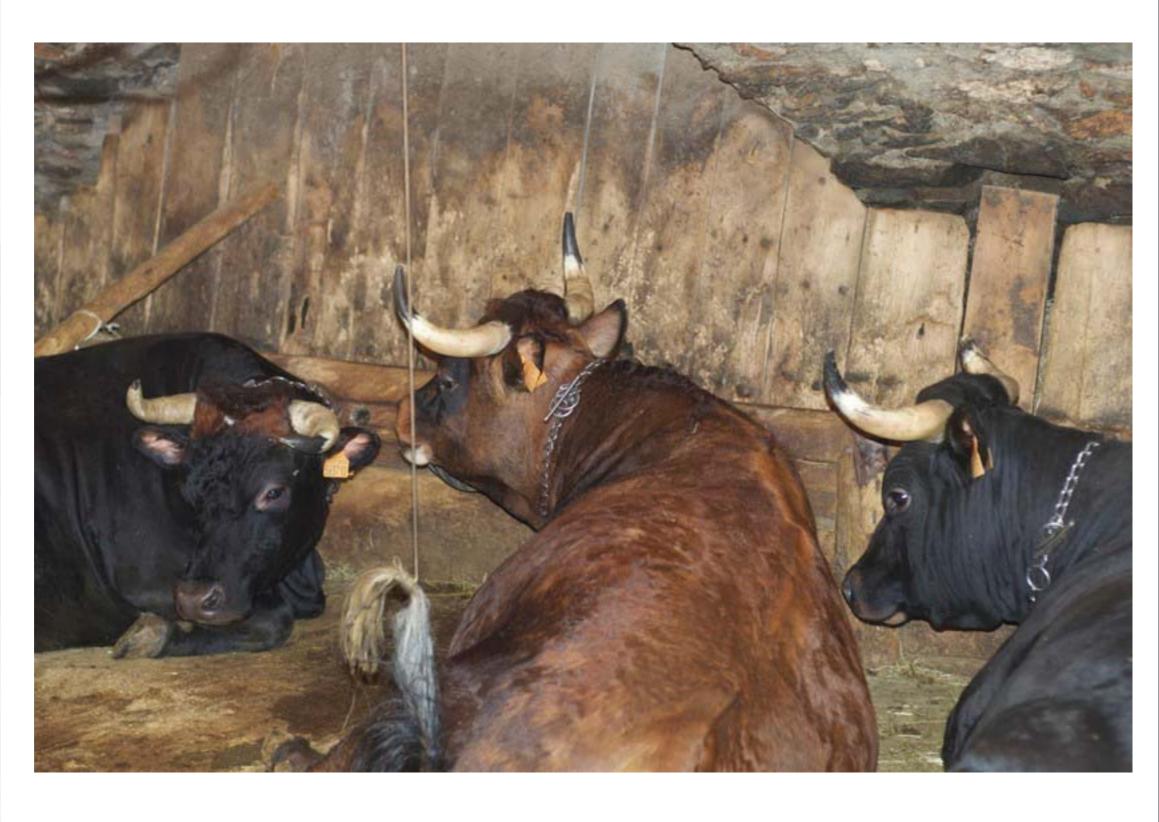
Aosta Valley - farming system



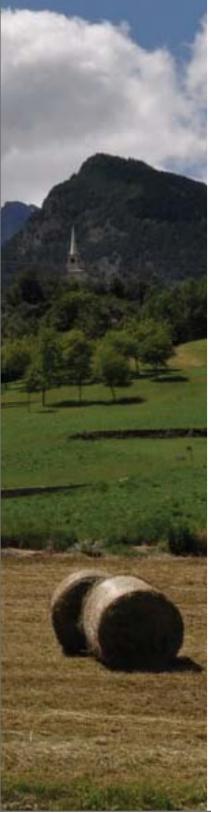


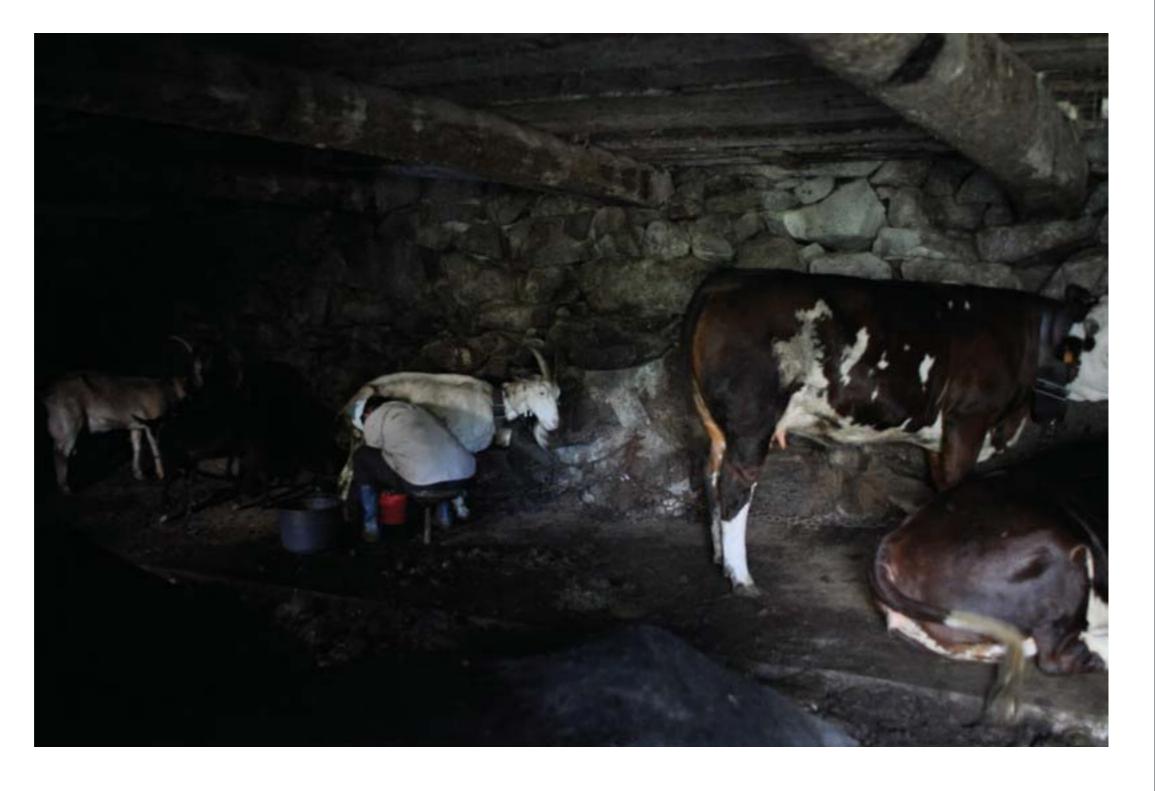
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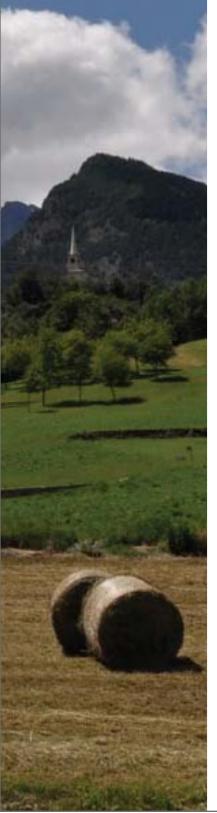
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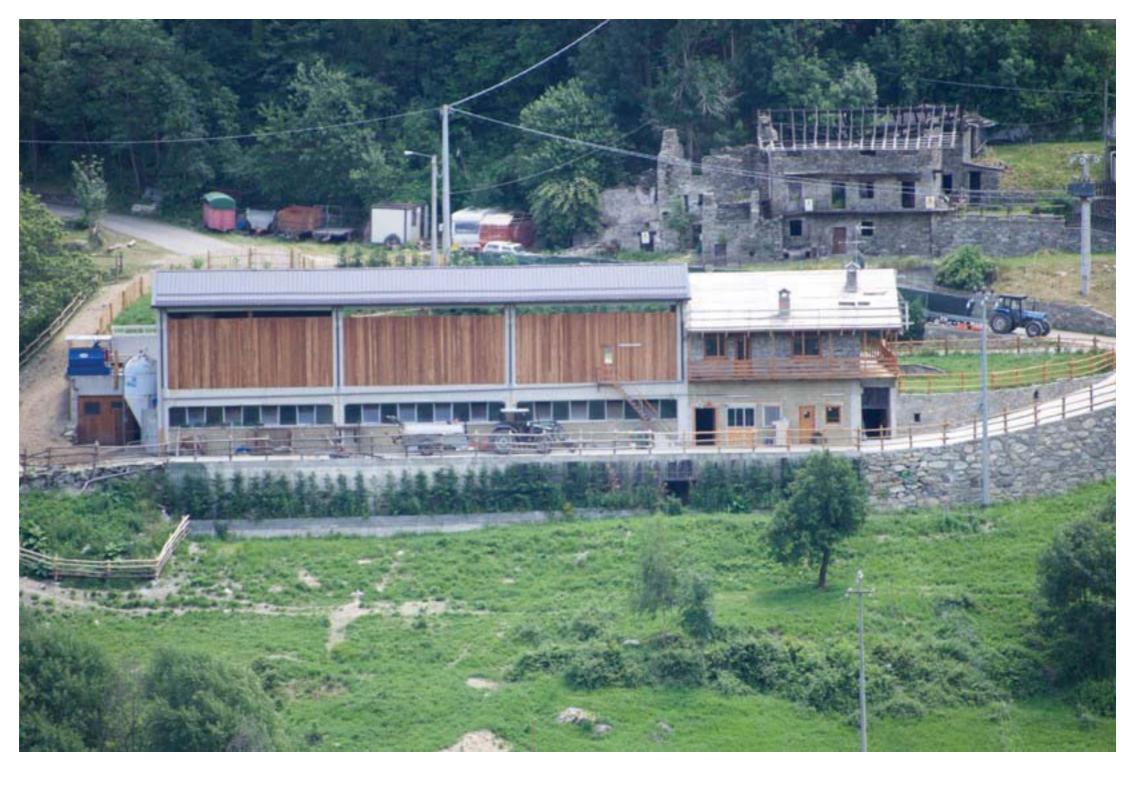






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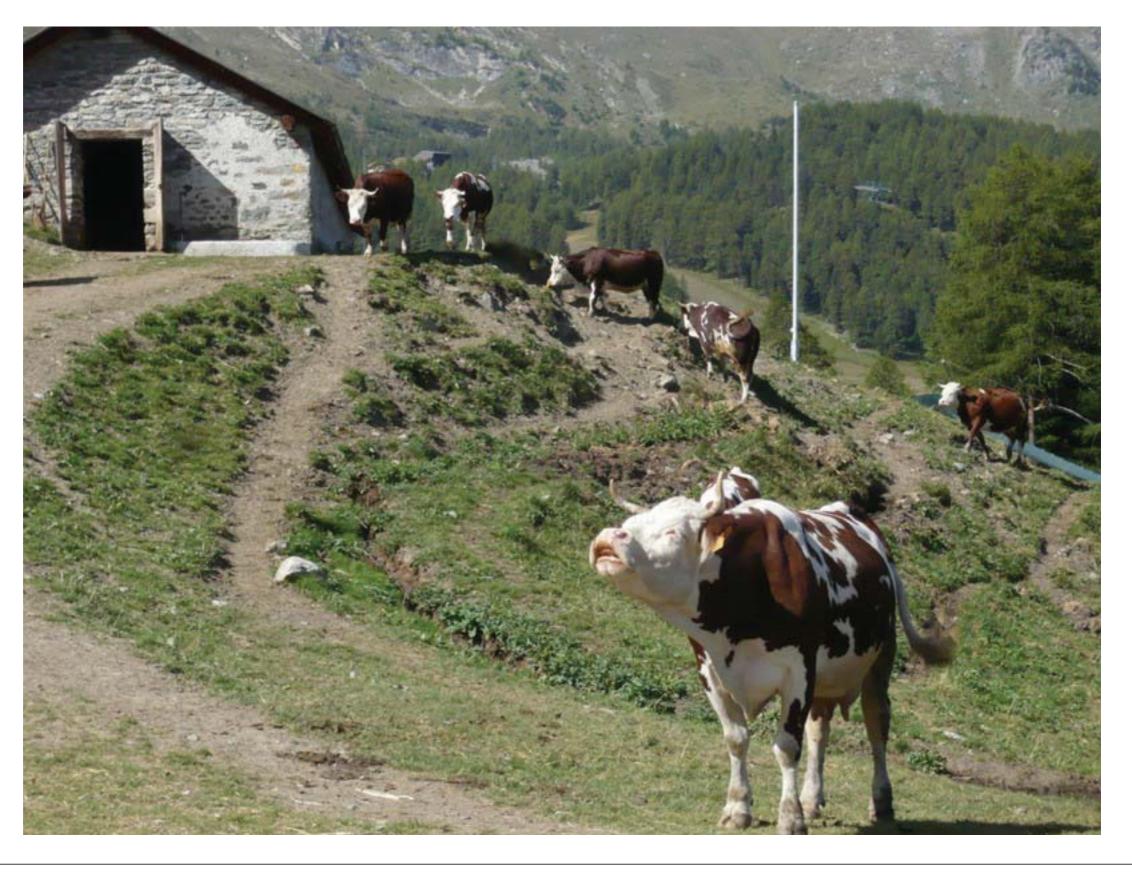
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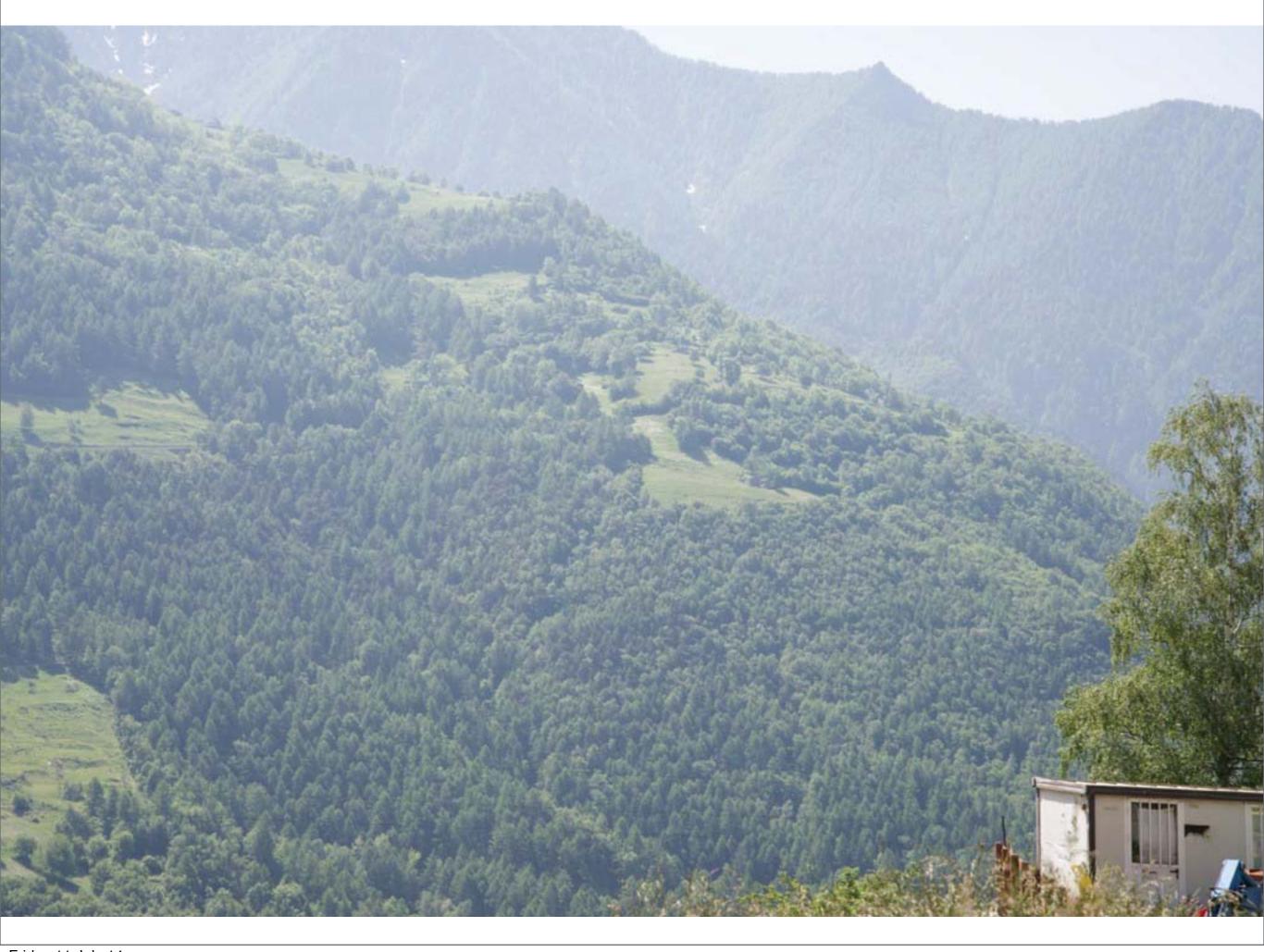
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Inarpa (June)

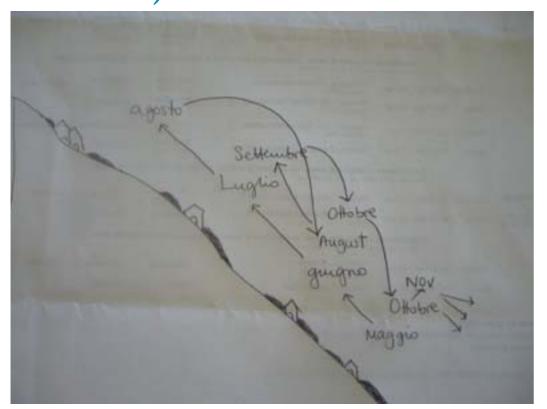


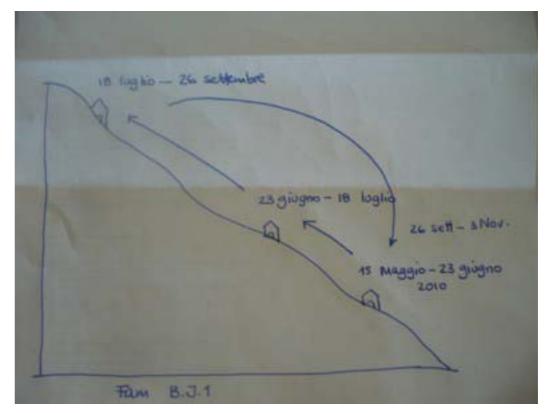


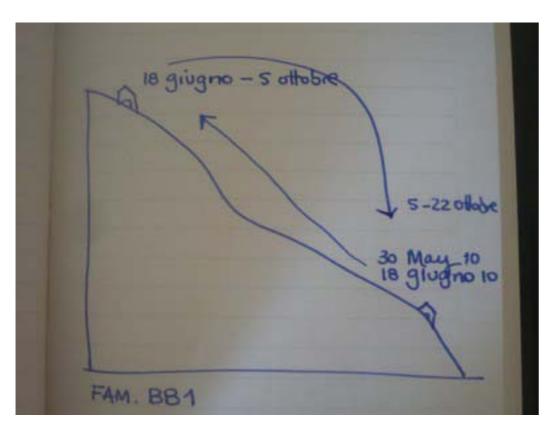
F Munier, June 2014



Adapting to the vertical exploitation of resources (tramuto)









Verticality - *Inarpa* - 24th June / St John



Inarpa by track

New vulnerabilities: Impact on environment





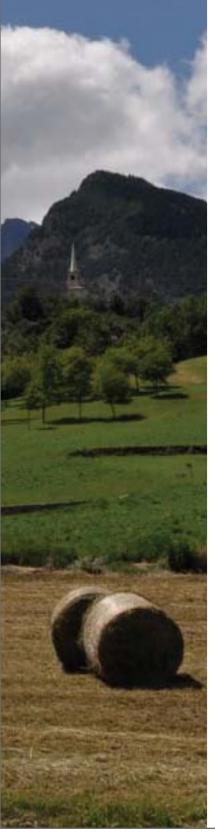
Munier, family Saint-Pierre, Valle d'Aosta. Marcela Olmedo © 2014

Verticality



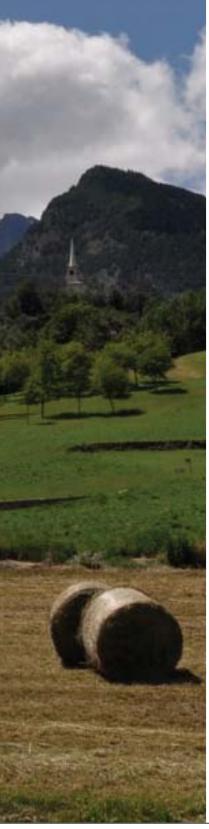


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Desarpa - 29th August





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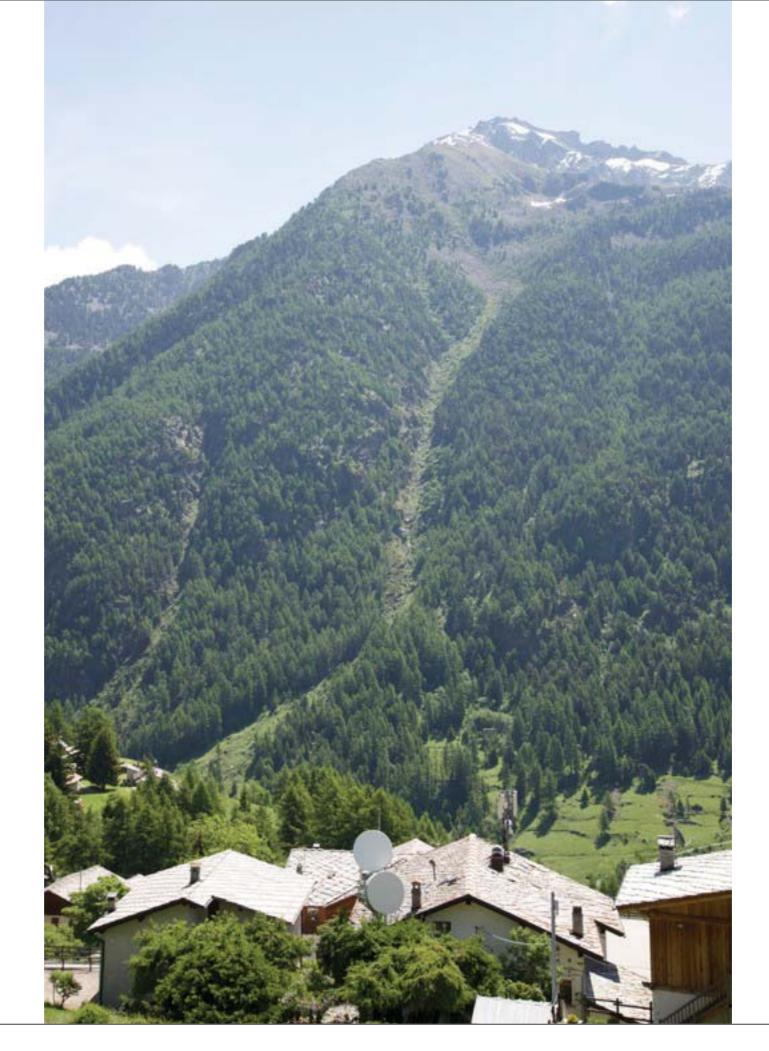
Desarpa - 29th September



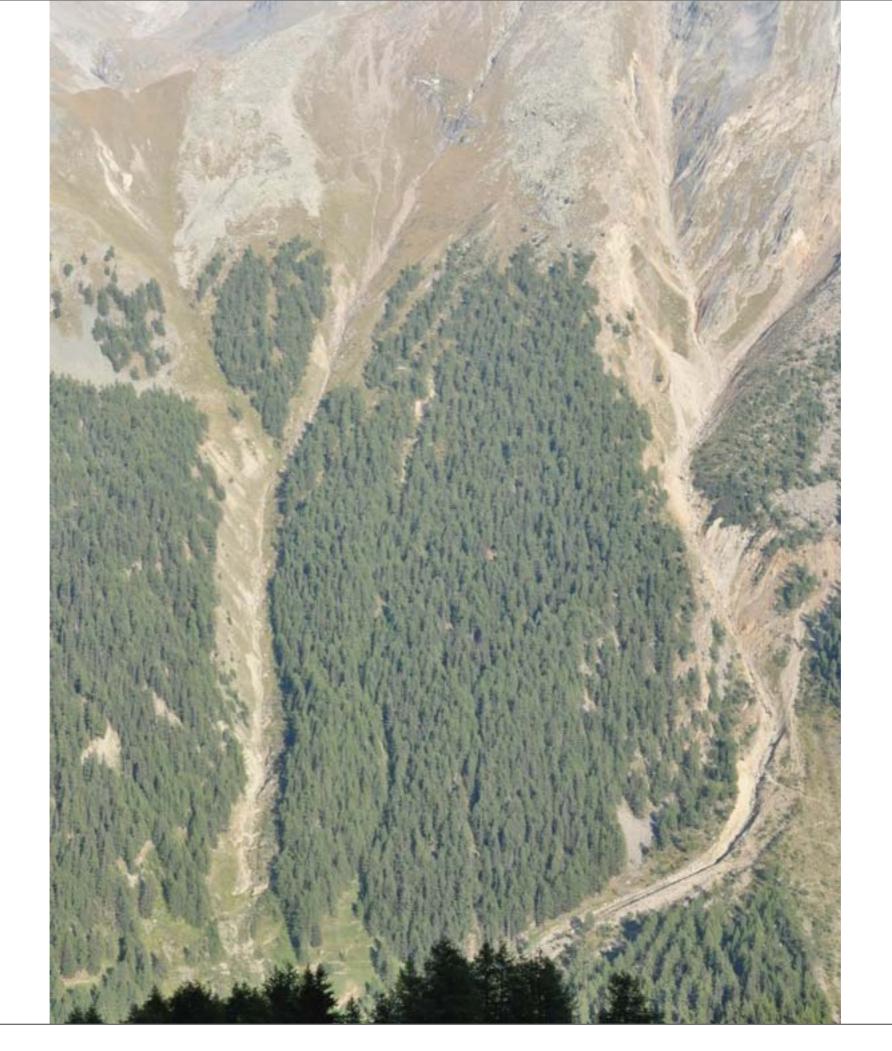


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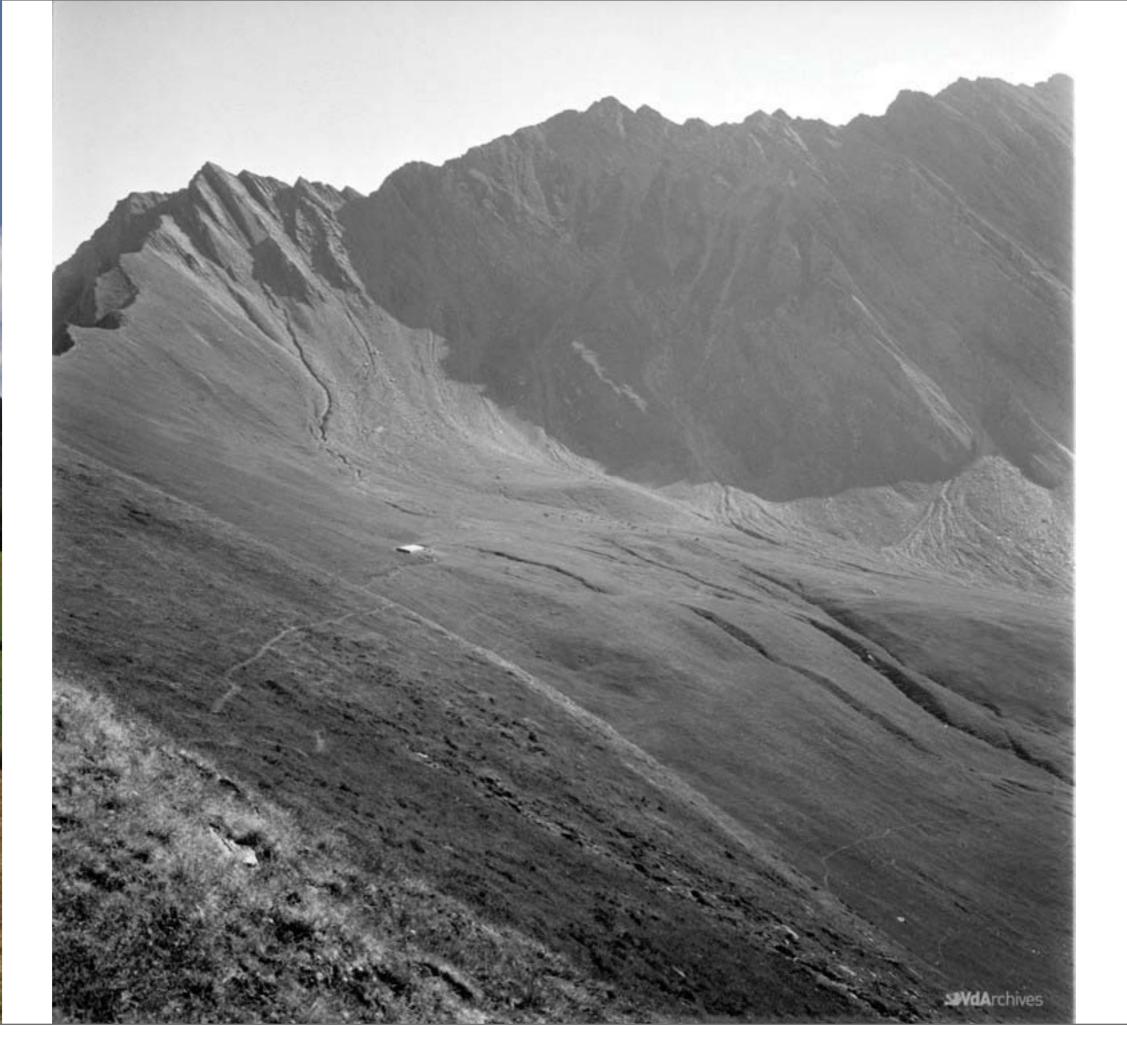




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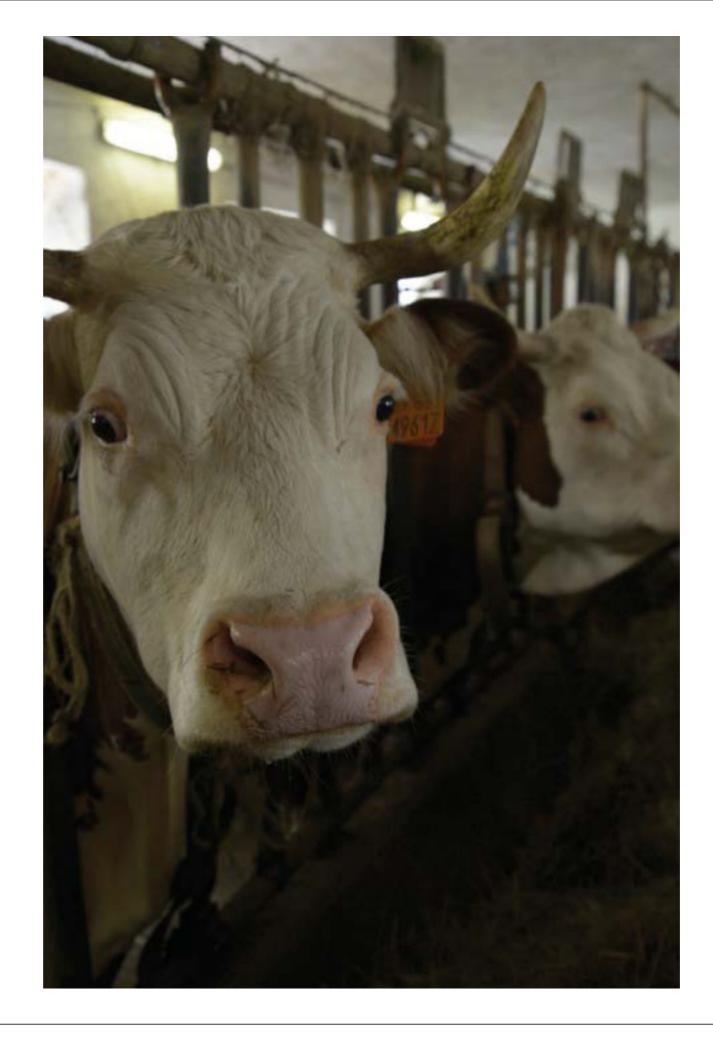




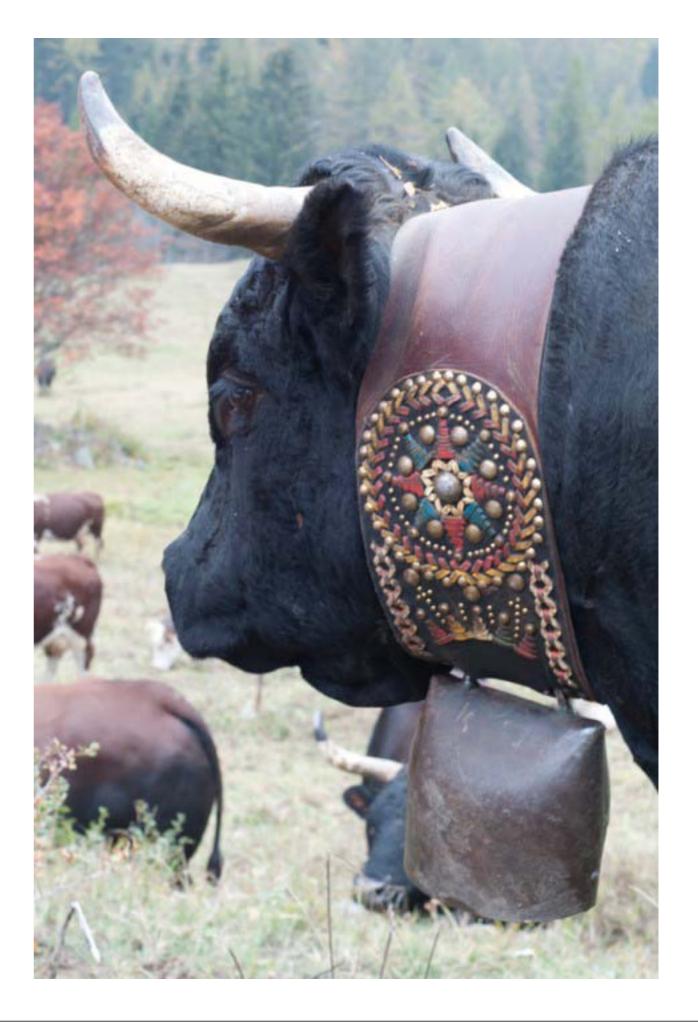
Adaptation - Genetic selection of Valdostan cattle







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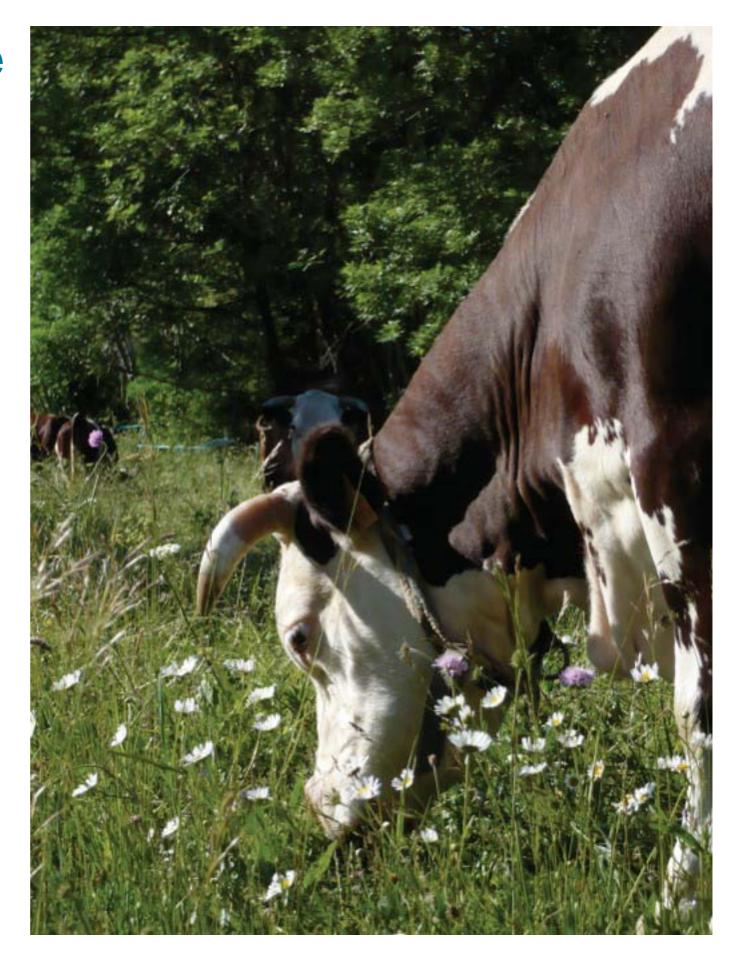
8-13 July 2014







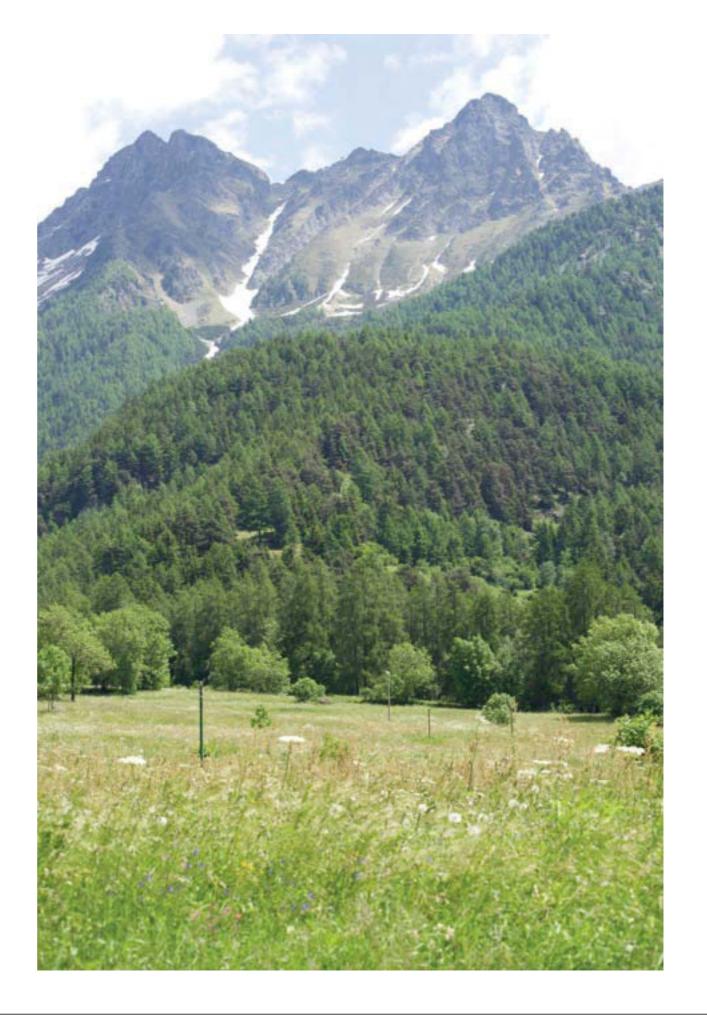
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a built environment.



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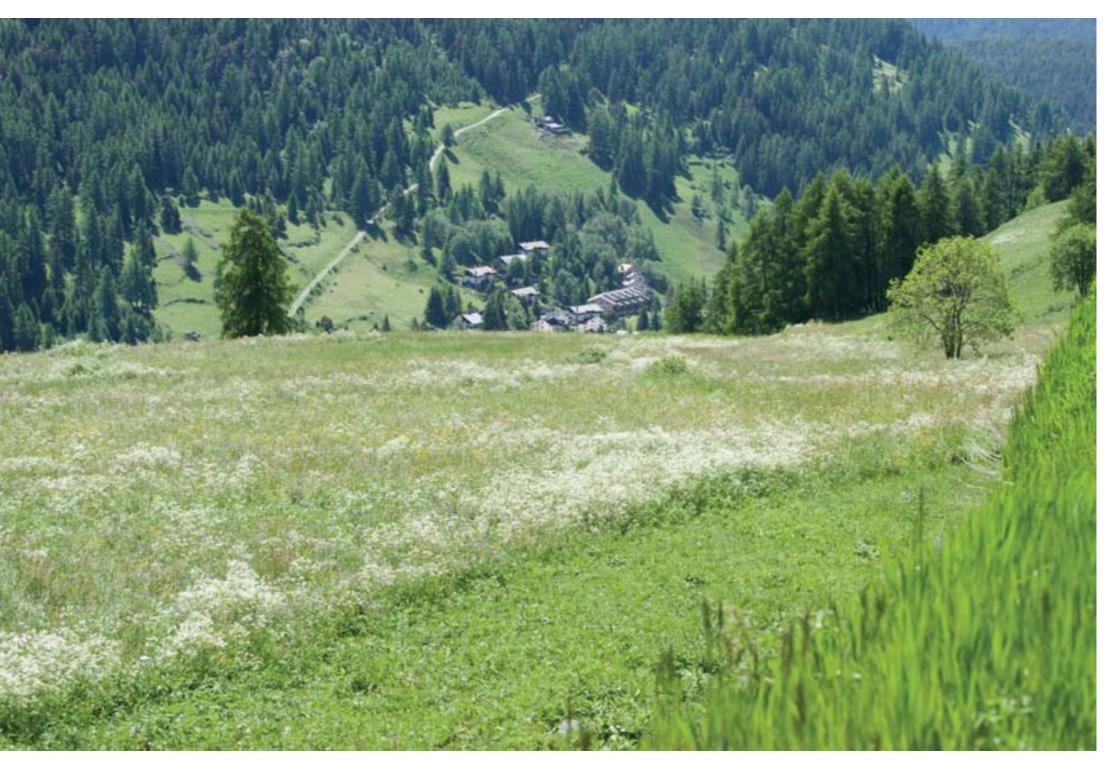
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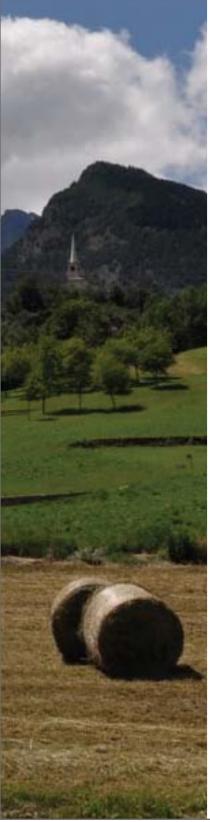


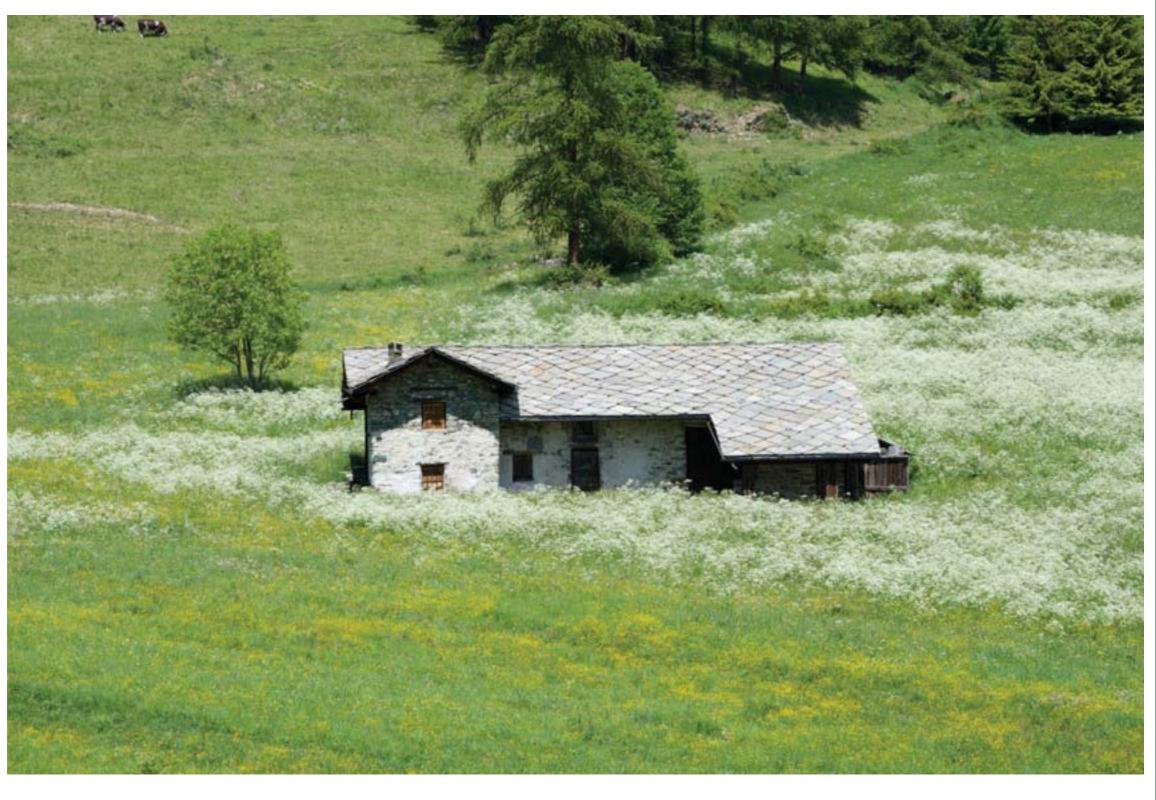
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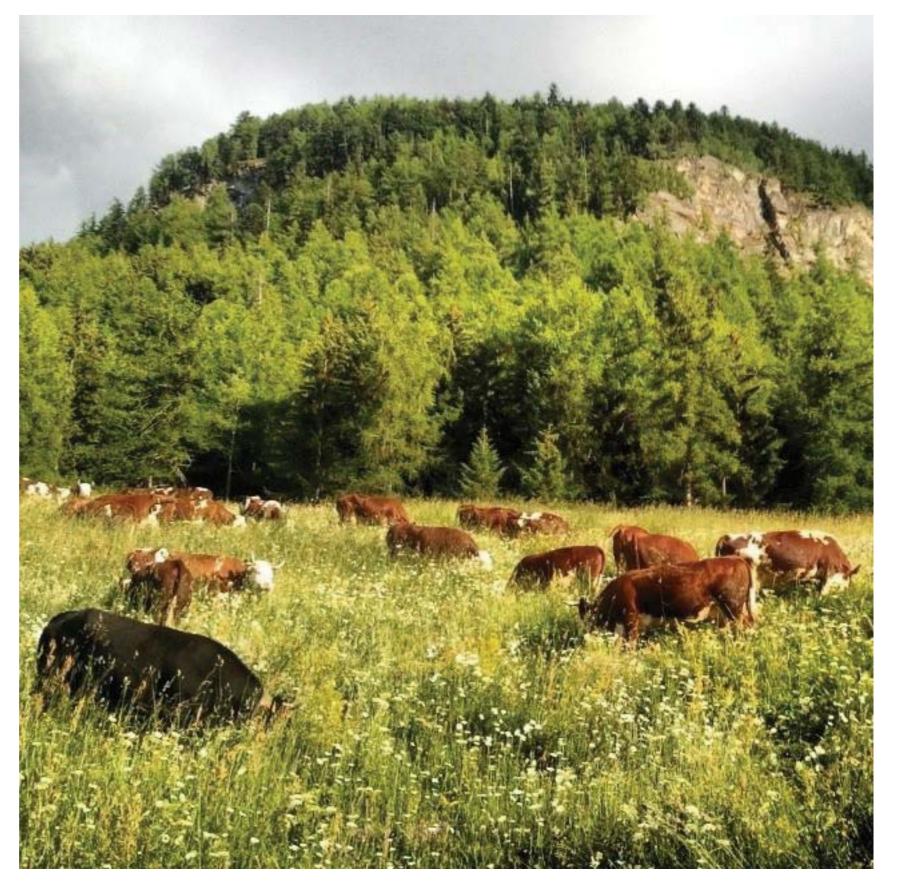


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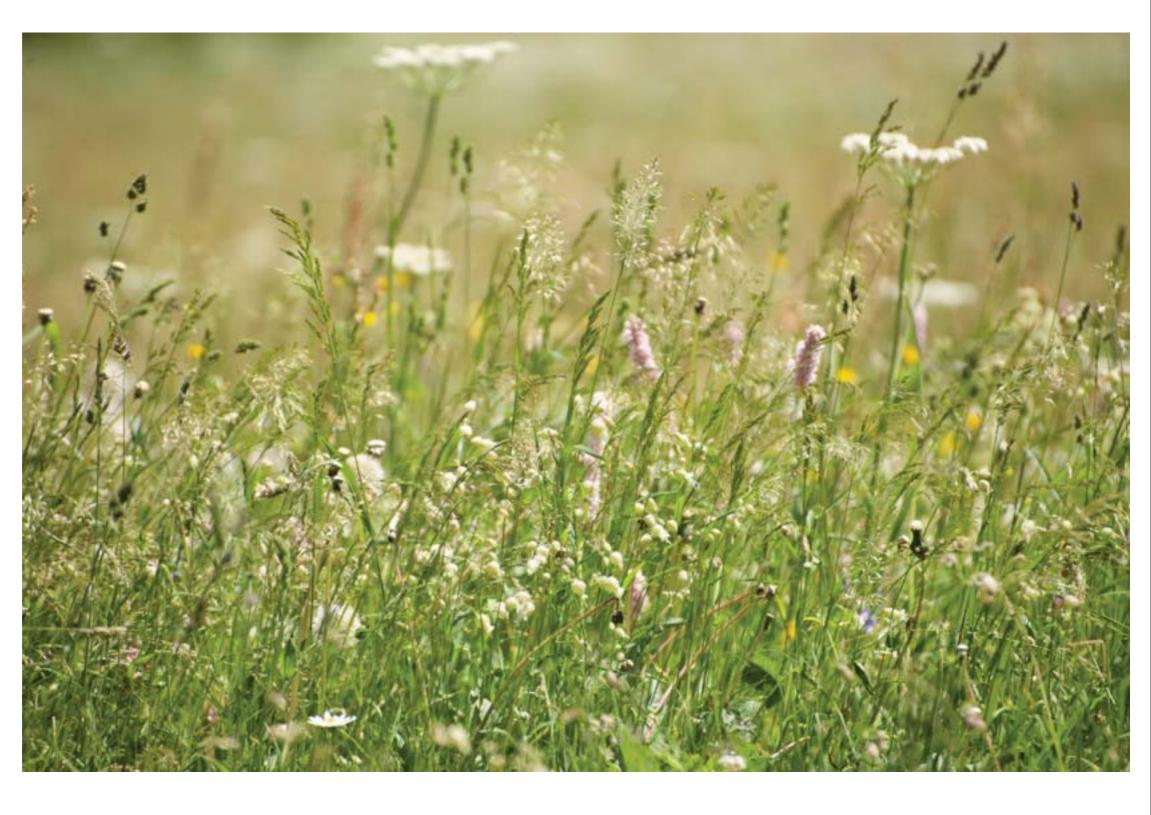
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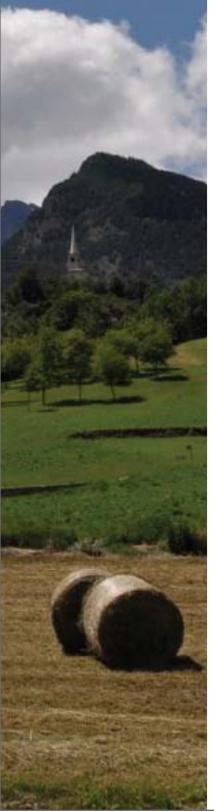


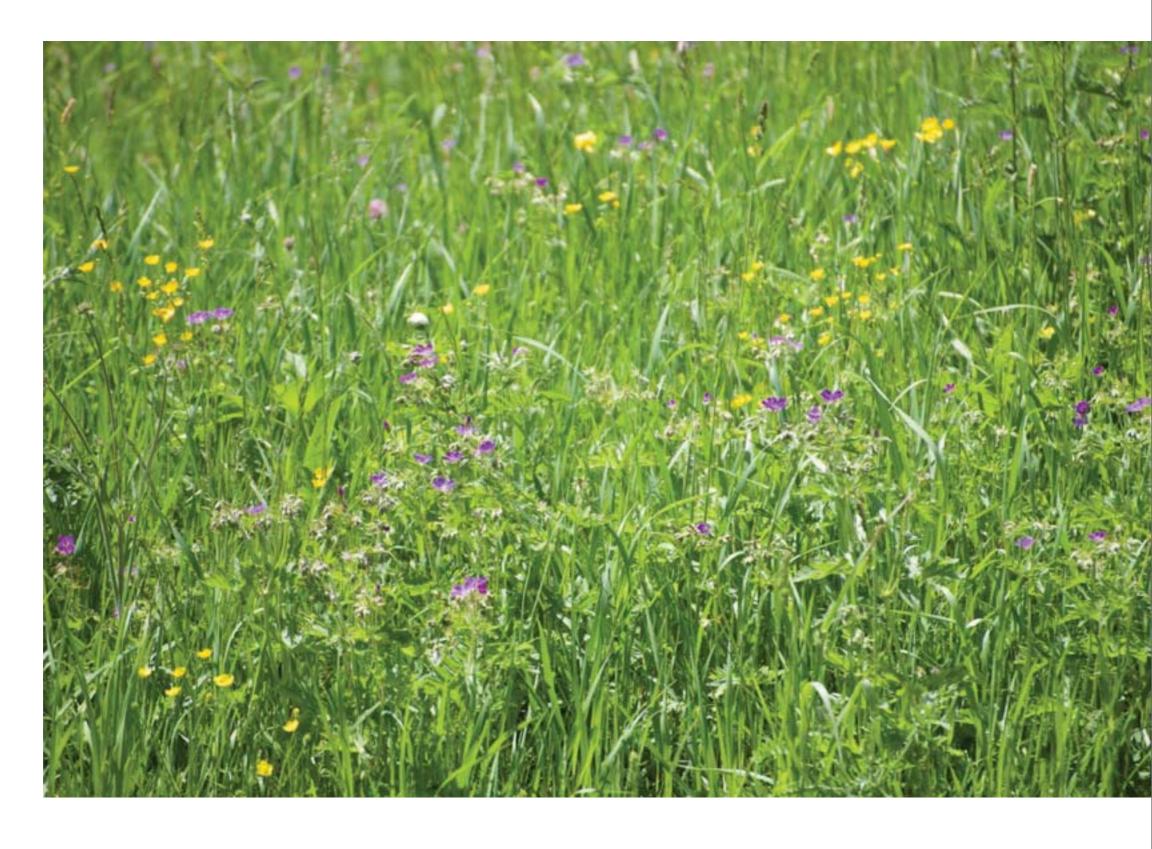
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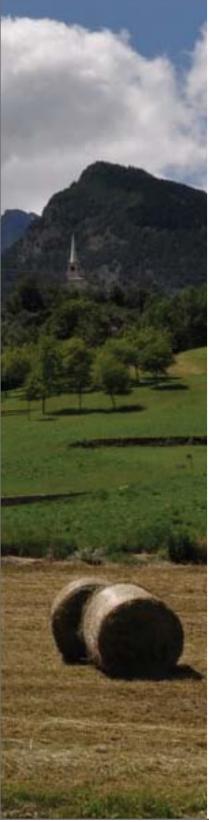


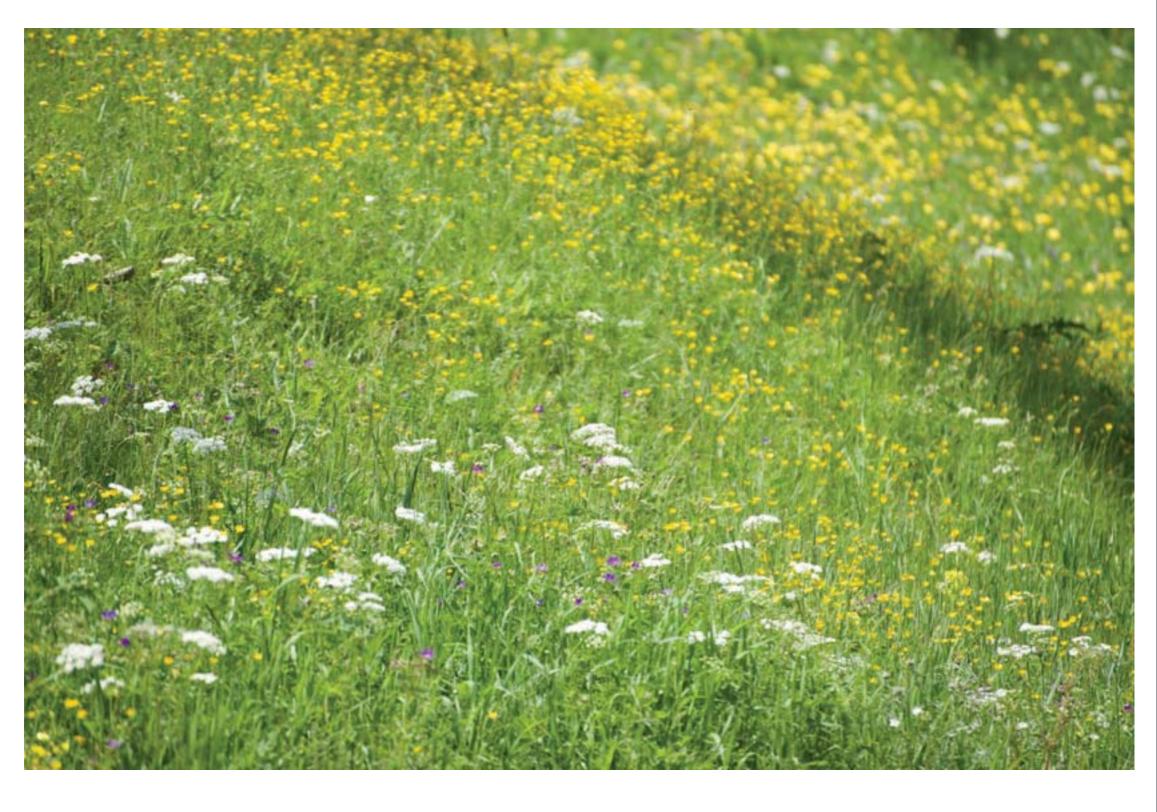
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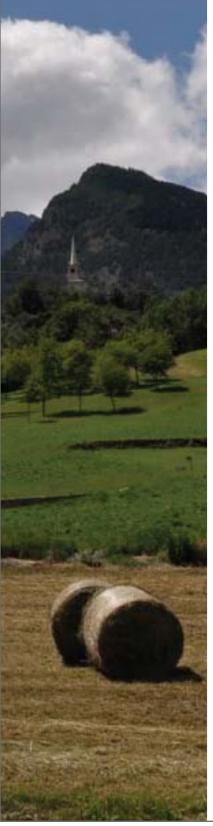


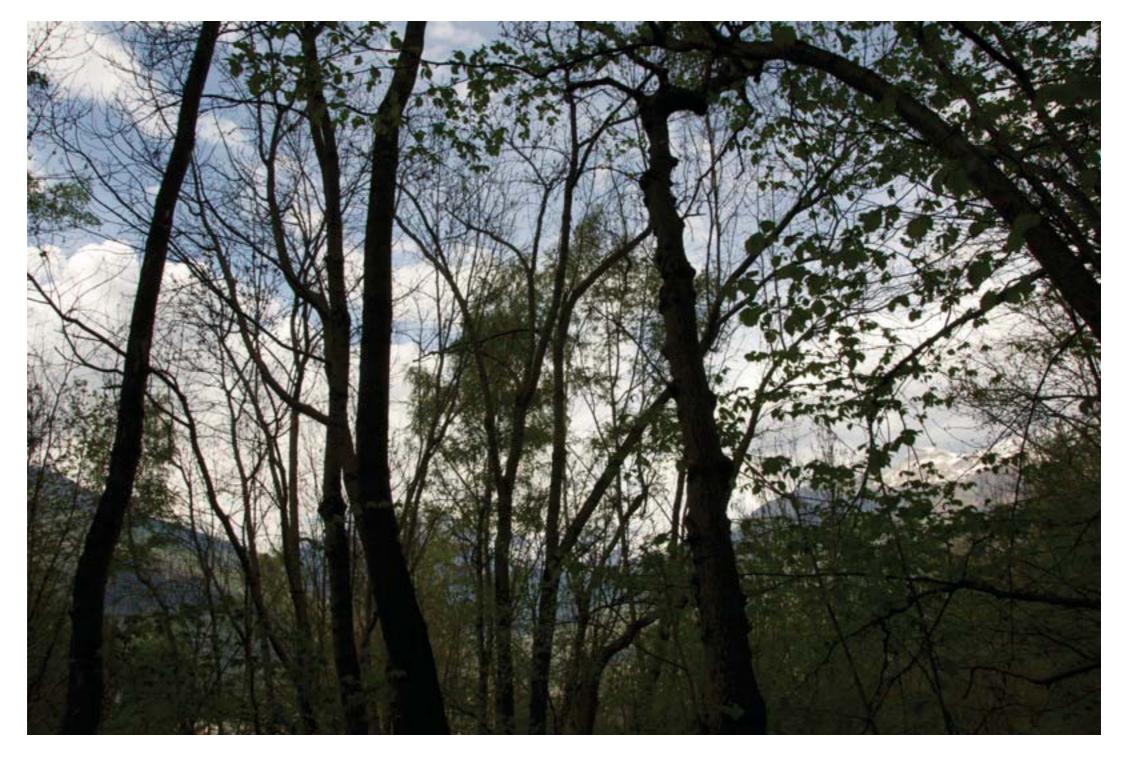
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Friday 11 July 14





Friday 11 July 14



Adaptation to water availability Vulnerability: less water availability; more pastureland to water





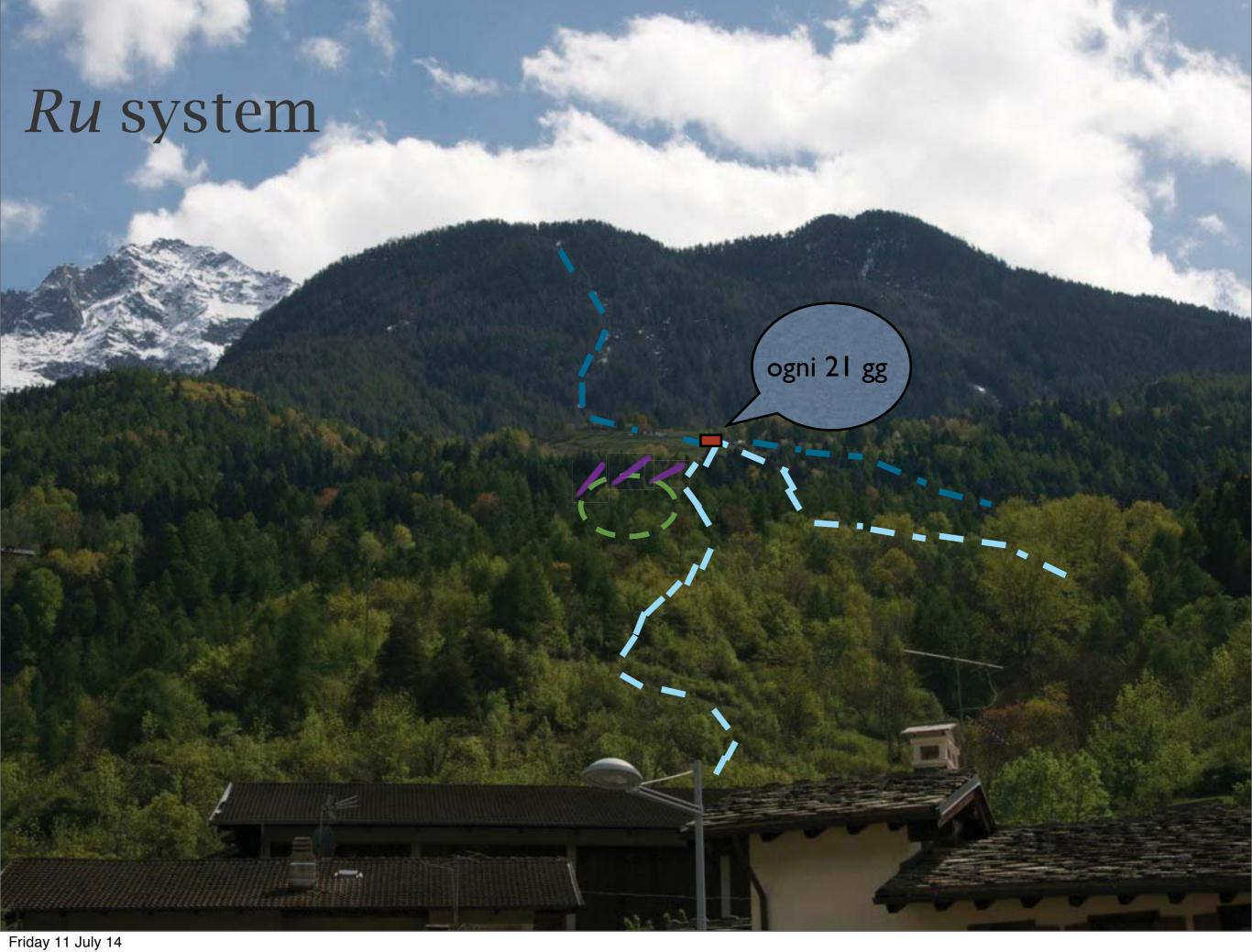
decreasing the use of *ru* (ancient canals / springs)

increasing artificial irrigation

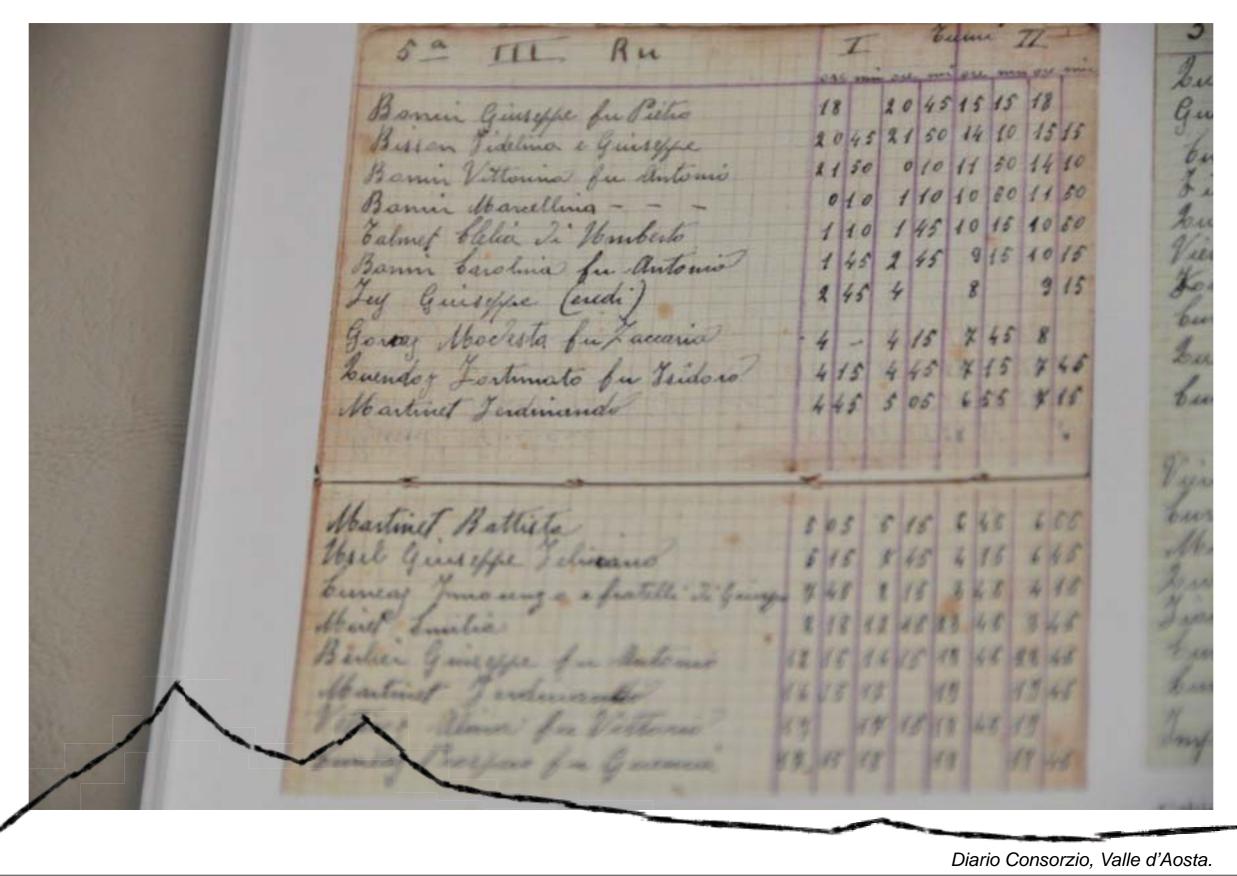


Friday 11 July 14





Ru system





L'AMMINISTRAZIONE COMUNALE **DI DONNAS**

CON LA PARTECIPAZIONE DEI CONSORZI DI MIGLIORAMENTO FONDIARIO DI DONNAS

ORGANIZZA

UNA GIORNATA DI CORVEE

PER LA PULIZIA DELLE STRADE DELLA COLLINA DI VERT DELLA COLLINA DI DONNAS DELLA STRADA DEI VIGNETI

Sabato <u>3 Maggio 2014</u>

(in caso di maltempo verrà rinviata al 10 Maggio 2014)

Ritrovo alle ore 7.30:

- Piazzale Montey per pulizia Collina Vert
- Piazzale Bec Renon per pulizia Collina Donnas e Strada dei Vigneti

L'iniziativa terminerà con un momento conviviale presso la sala del Consorzio M.F. Valbona-Borettaz

TUTTI SONO INVITATI A PARTECIPARE ALL'INIZIATIVA DI INTERESSE COLLETTIVO

Ogni partecipante dovrà munirsi di attrezzatura idonea alla pulizia (pala, decespugliatore, falcetto, guanti, ecc.) ed interverrà a titolo personale.

Si declina ogni responsabilità per eventuali incidenti a persone o cose prima, durante e dopo la manifestazione.



Comune di Saint Denis

Committente: Amministrazione Comunale di Saint-Denis

MISURA 313- Incentivazione di attività turistiche Azione C "Valorizzazione dei percorsi storici- naturalistici lungo gli antichi rus"

RELAZIONE TECNICA



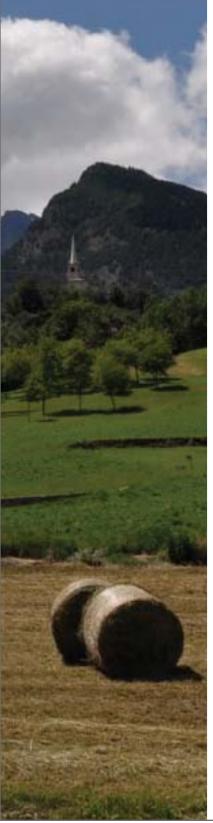
Indice

- <u>1 Introduzione e inquadramento generale dell'area.</u>
- 2 Conformita agli obiettivi della misura e programmazione regionale
- 3 Stato di fatto iniziale e gli interventi previsti..... 4 – Cronoprogramma dei tempi di realizzazione delle opere e delle spese
- 5 Valutazione di sostenibilità ambientale dell'intervento previsto e relativi impatti
- 6 Descrizione ai fini dell'attribuzione del punteggio di merito

Progettista:

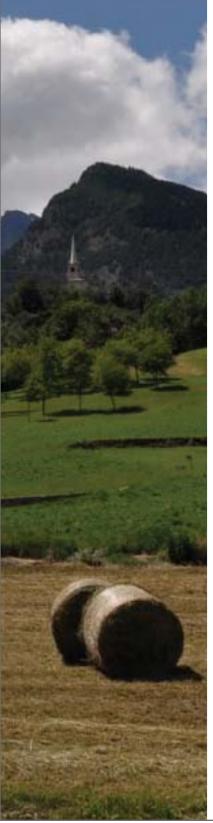
Geom. Neyroz Aldo - Via Challand n. 30 Aosta tel 0165 32127

Ru system





Charvensod, Valle d'Aosta. Marcela Olmedo © 2014





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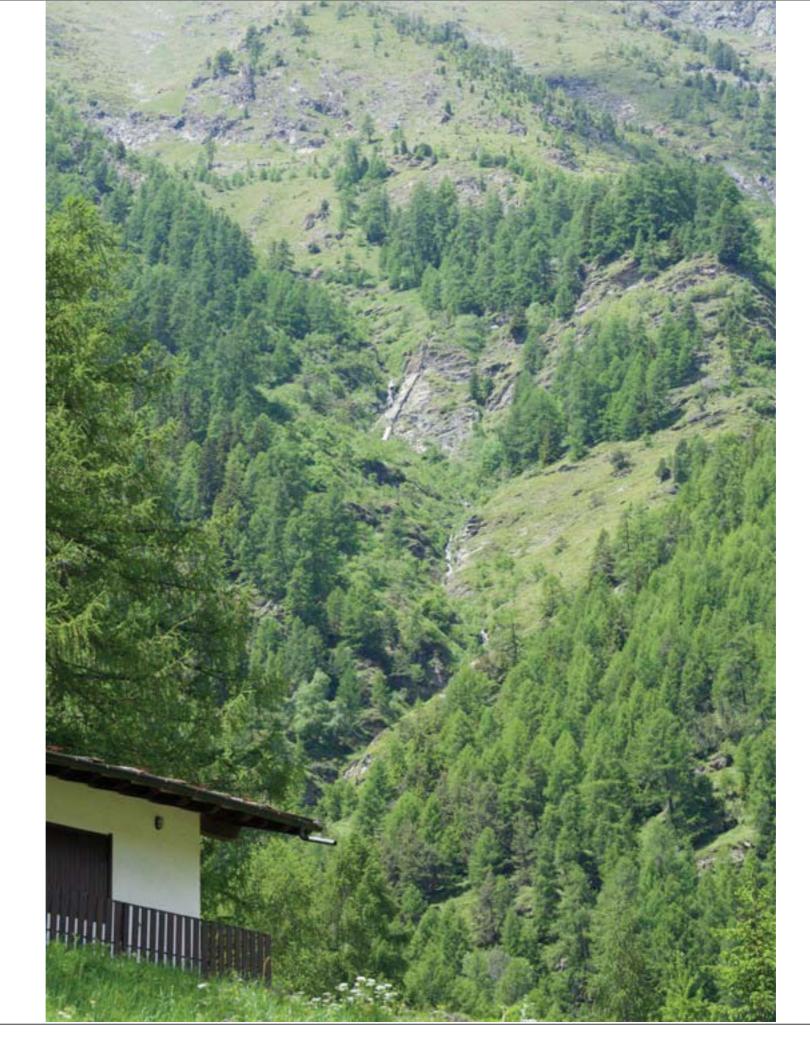


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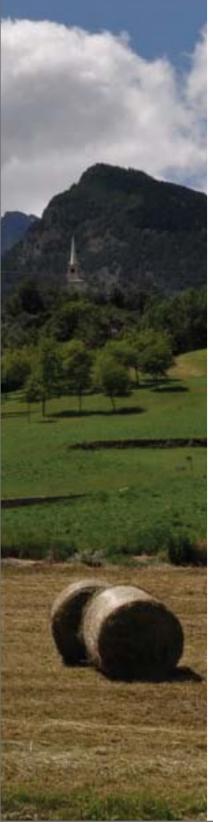
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Friday 11 July 14





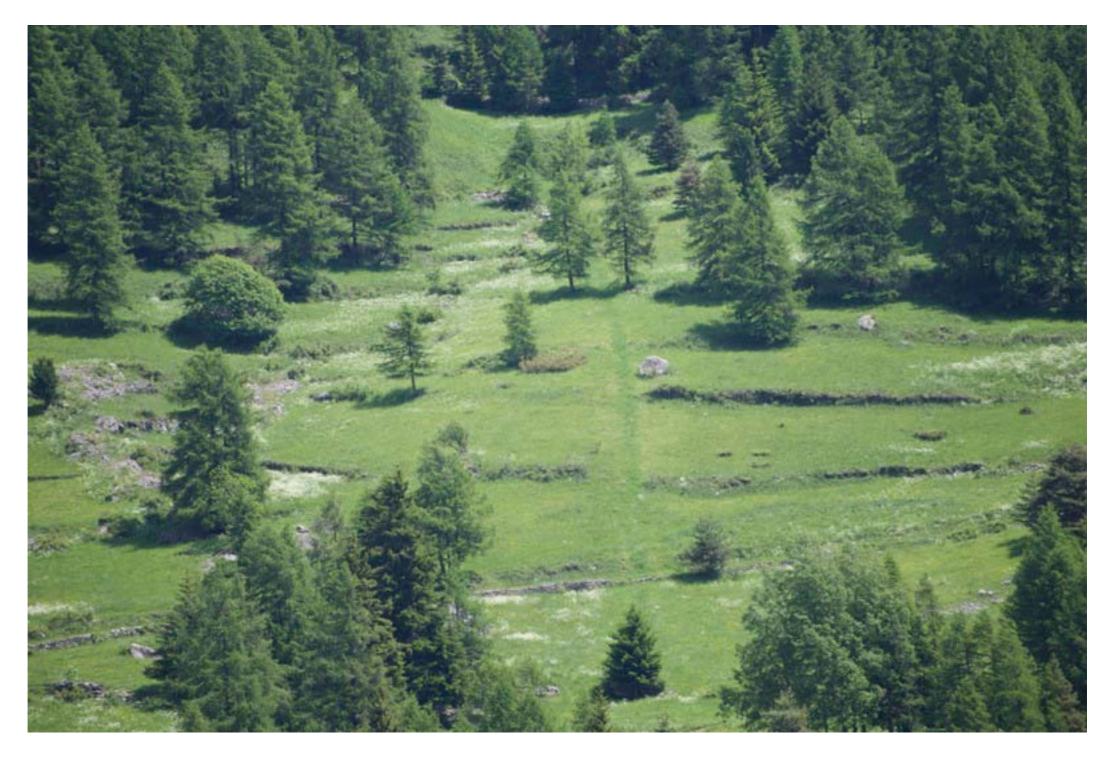
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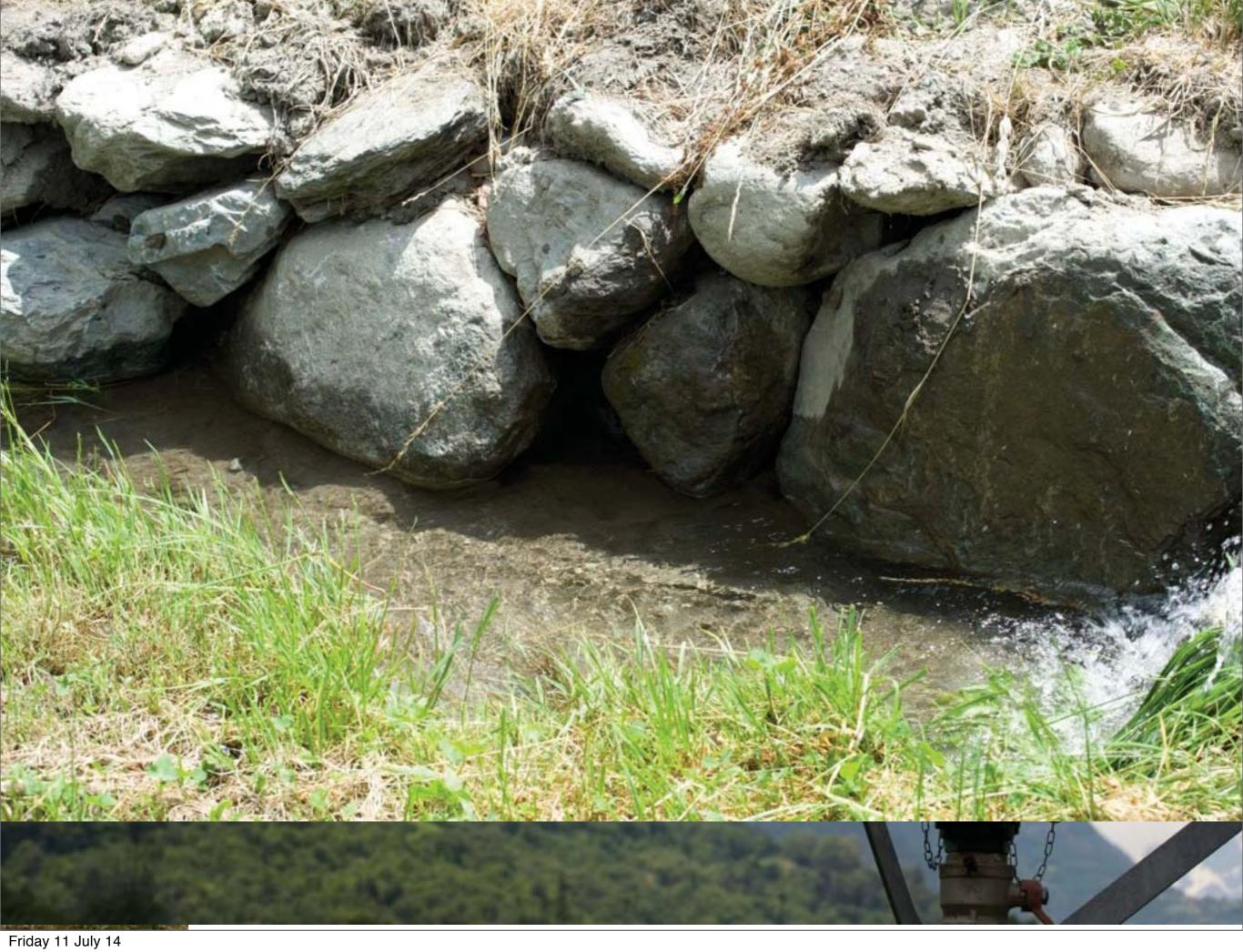


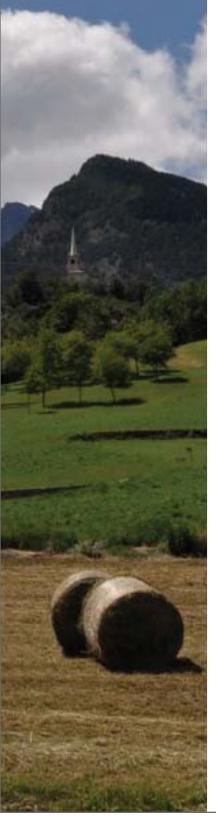






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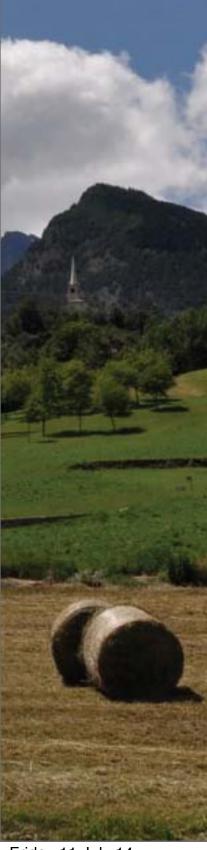


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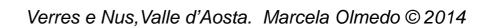


Friday 11 July 14



Ru system









Friday 11 July 14





Friday 11 July 14





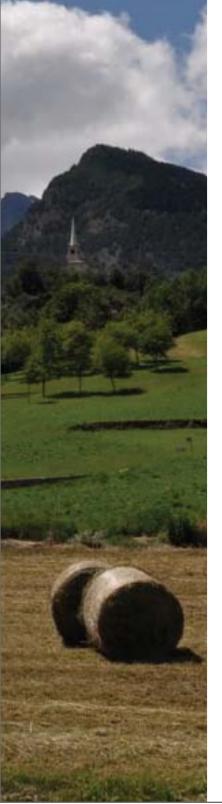


Friday 11 July 14





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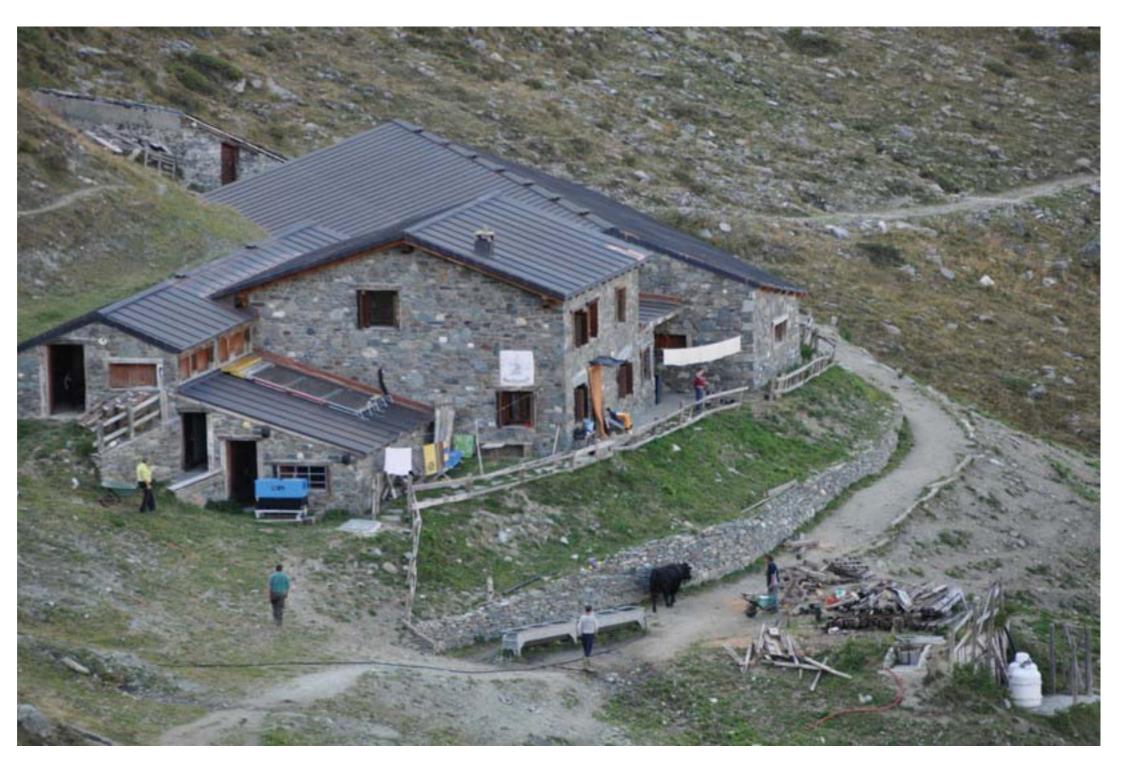




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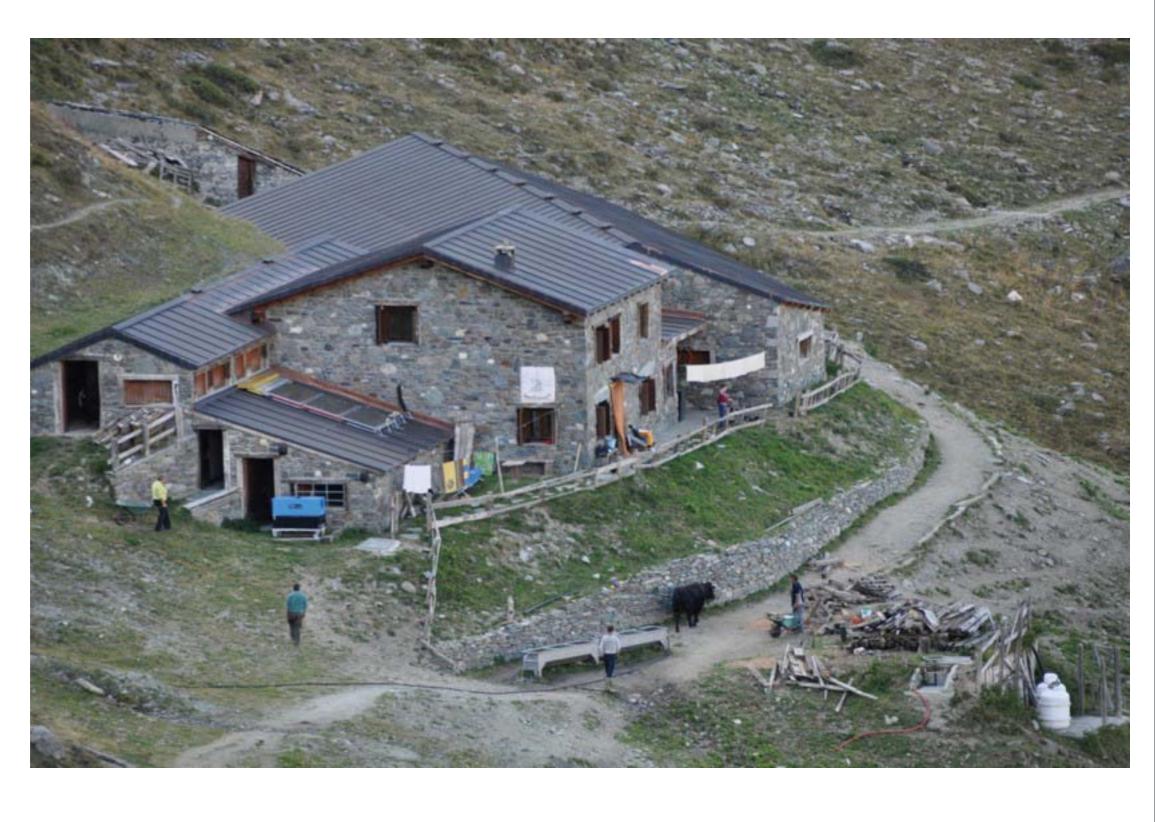




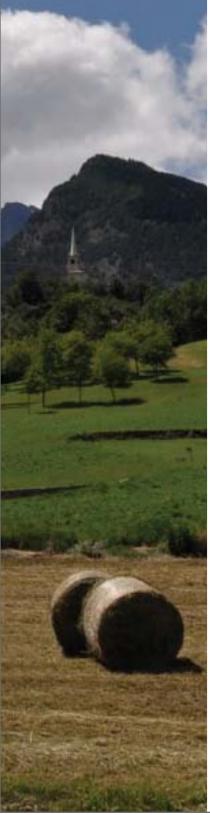


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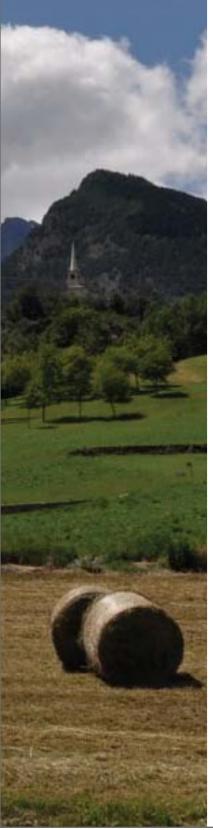


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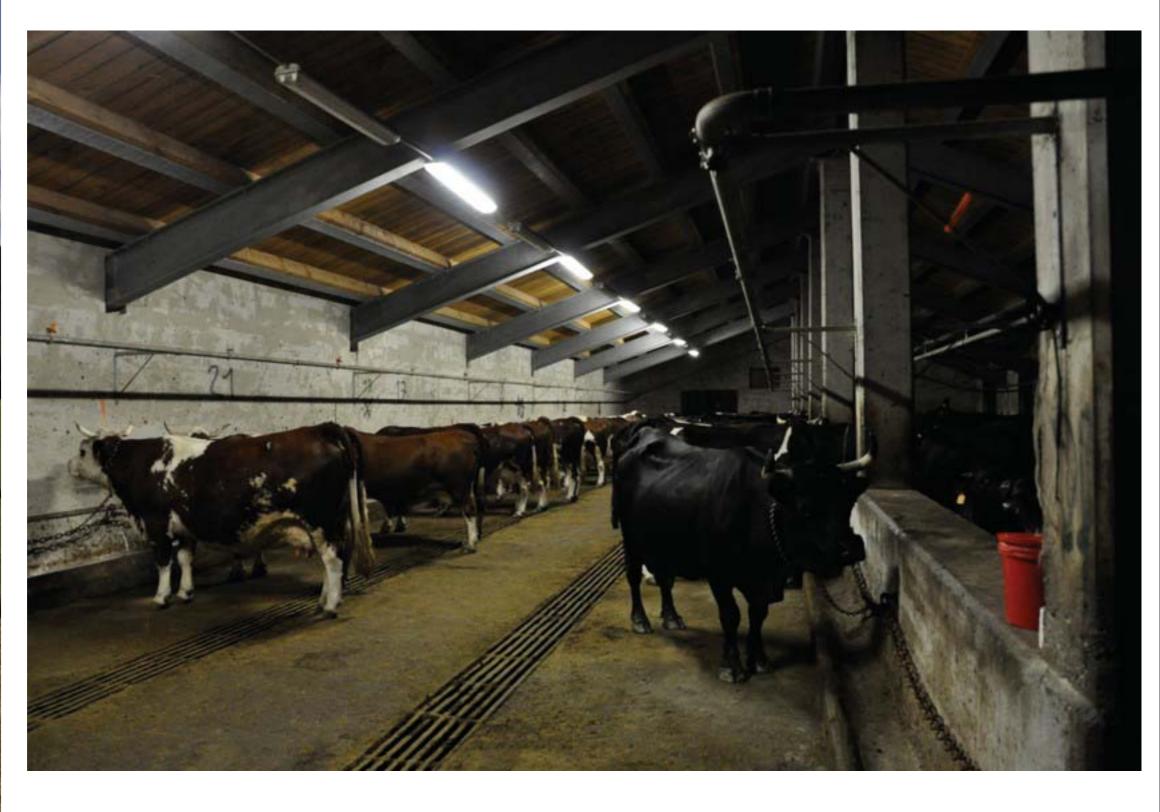




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Dynamic life at Alpeggio





Friday 11 July 14

Dynamic life at Alpeggio





Friday 11 July 14



Fontina making - Technology





Friday 11 July 14

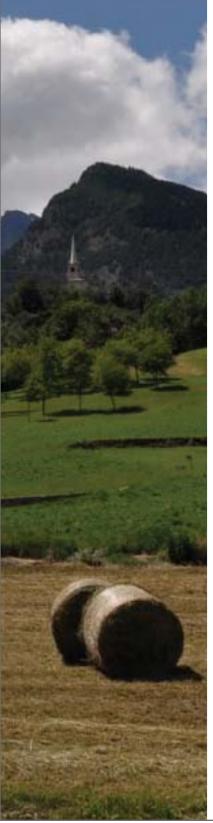
Fontina making - Technology





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Fontina maturing





Friday 11 July 14







Seras

Reblec



Toma di Gressoney











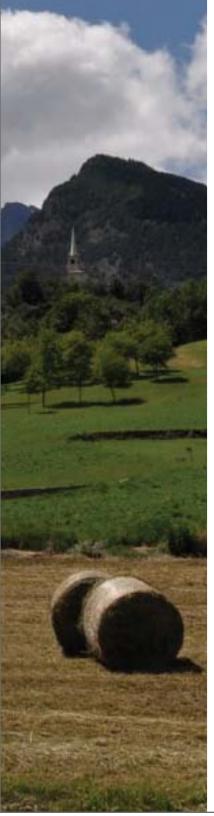
Dynamic life at Alpeggio





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Butter - Technology





Friday 11 July 14

Dynamic life at Stables

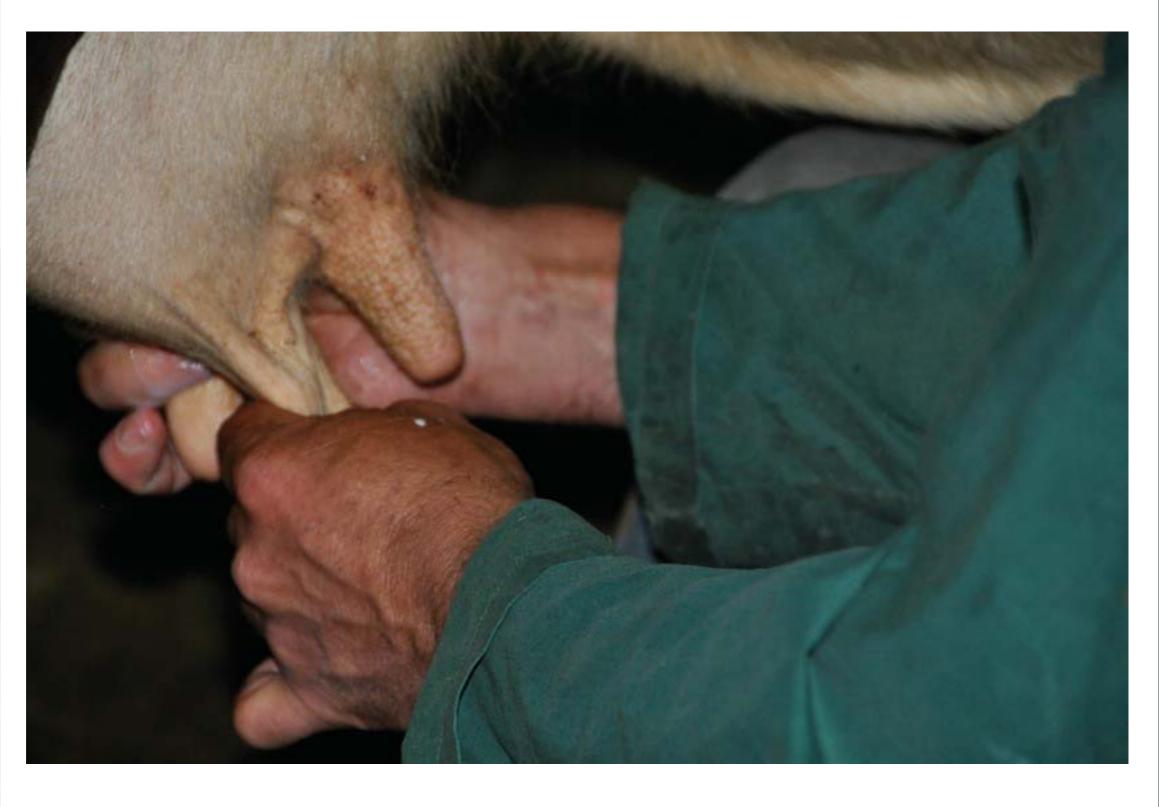




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Stable activity





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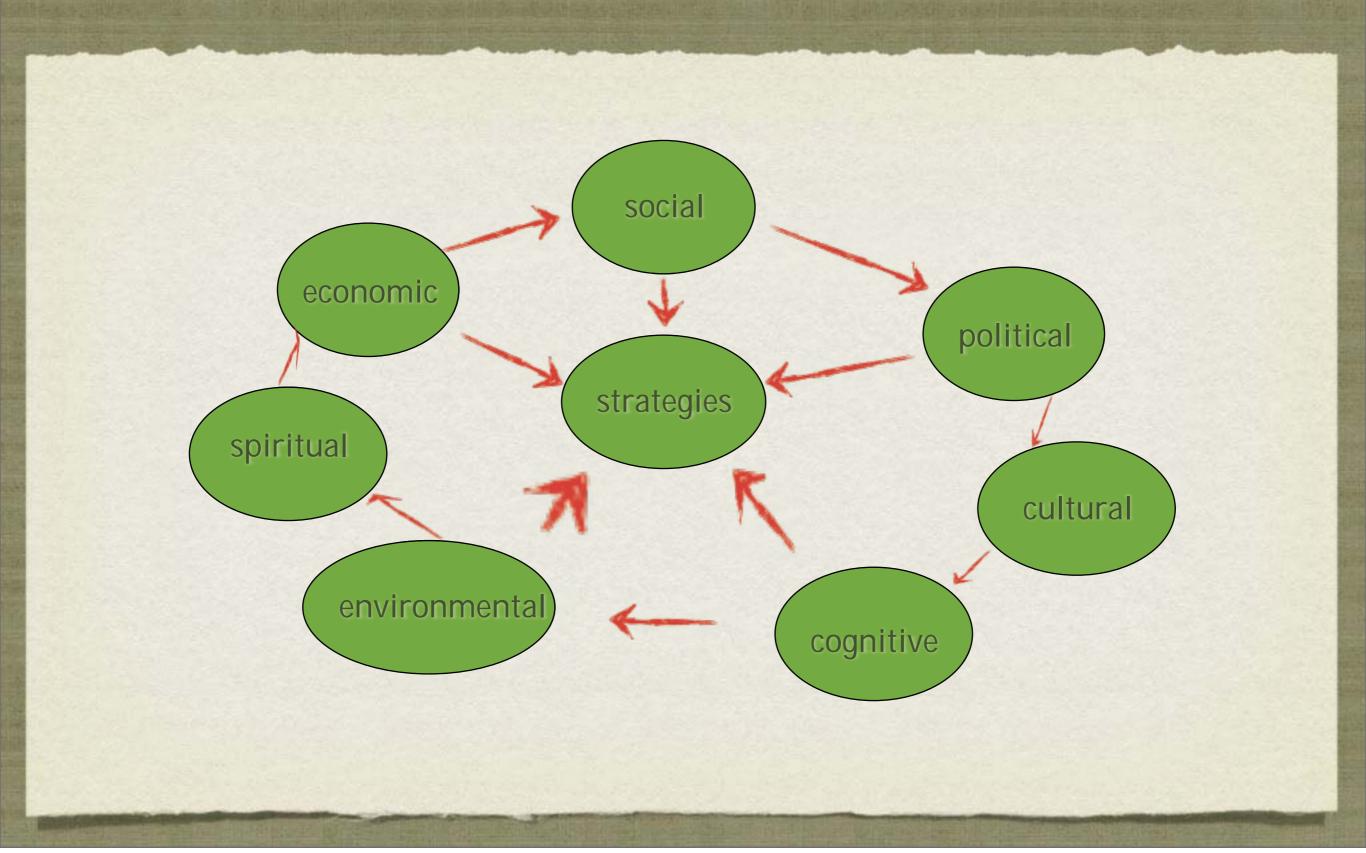
Stable in June-Ottobre



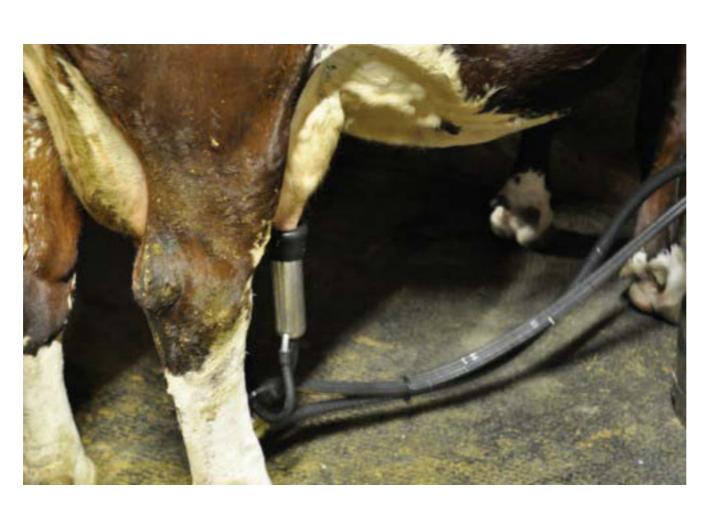


Friday 11 July 14

Conceptual framework









Friday 11 July 14



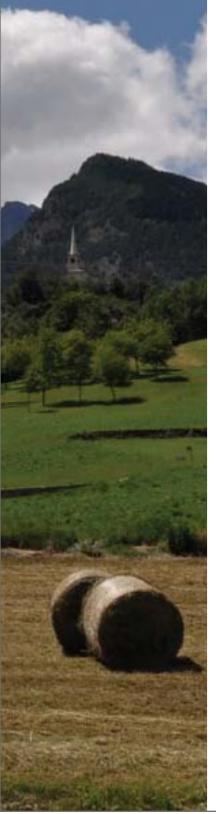


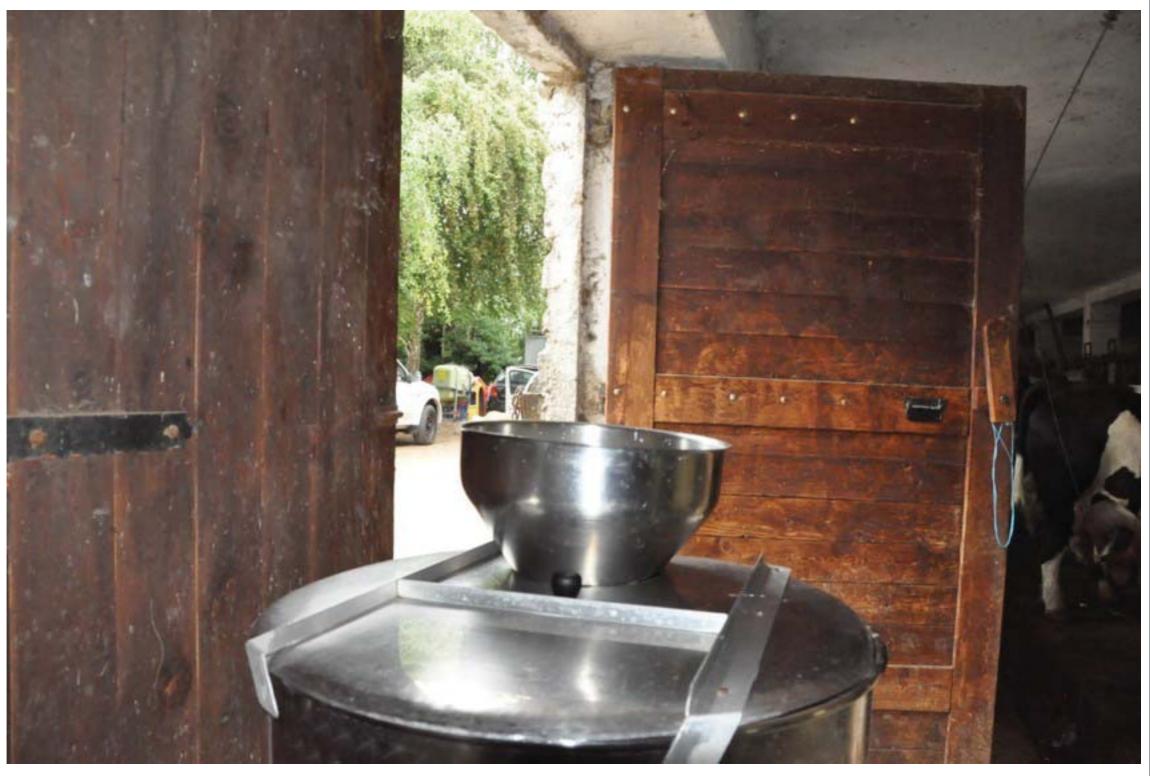
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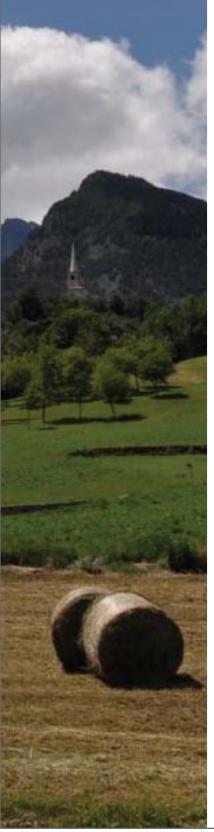


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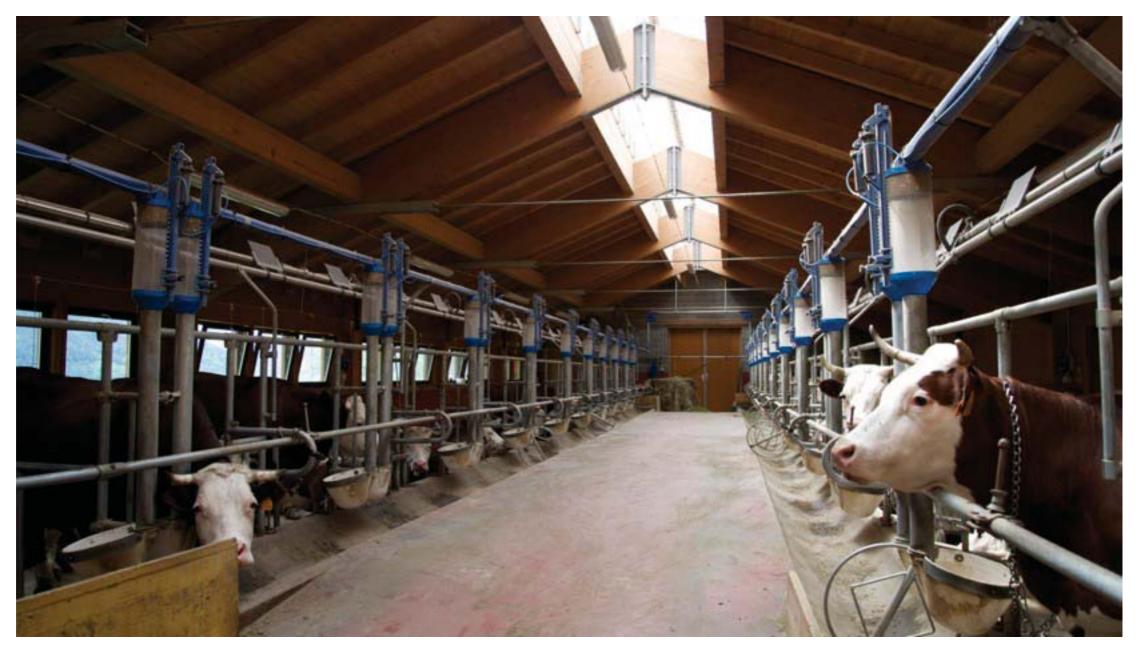
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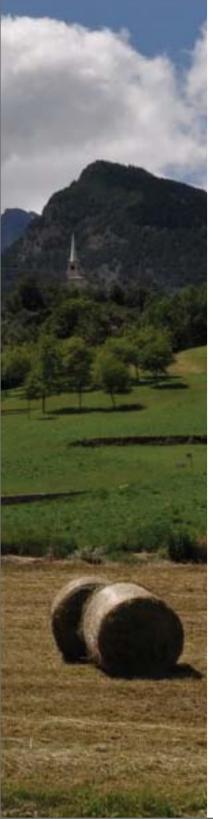


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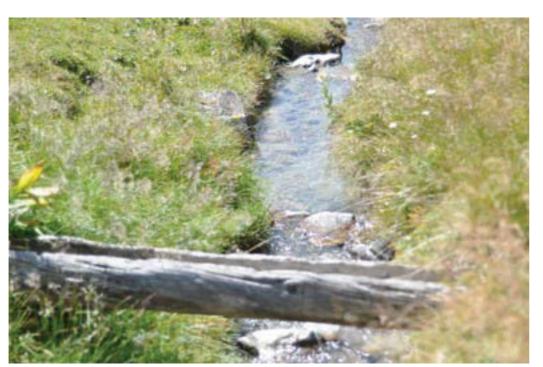
Friday 11 July 14





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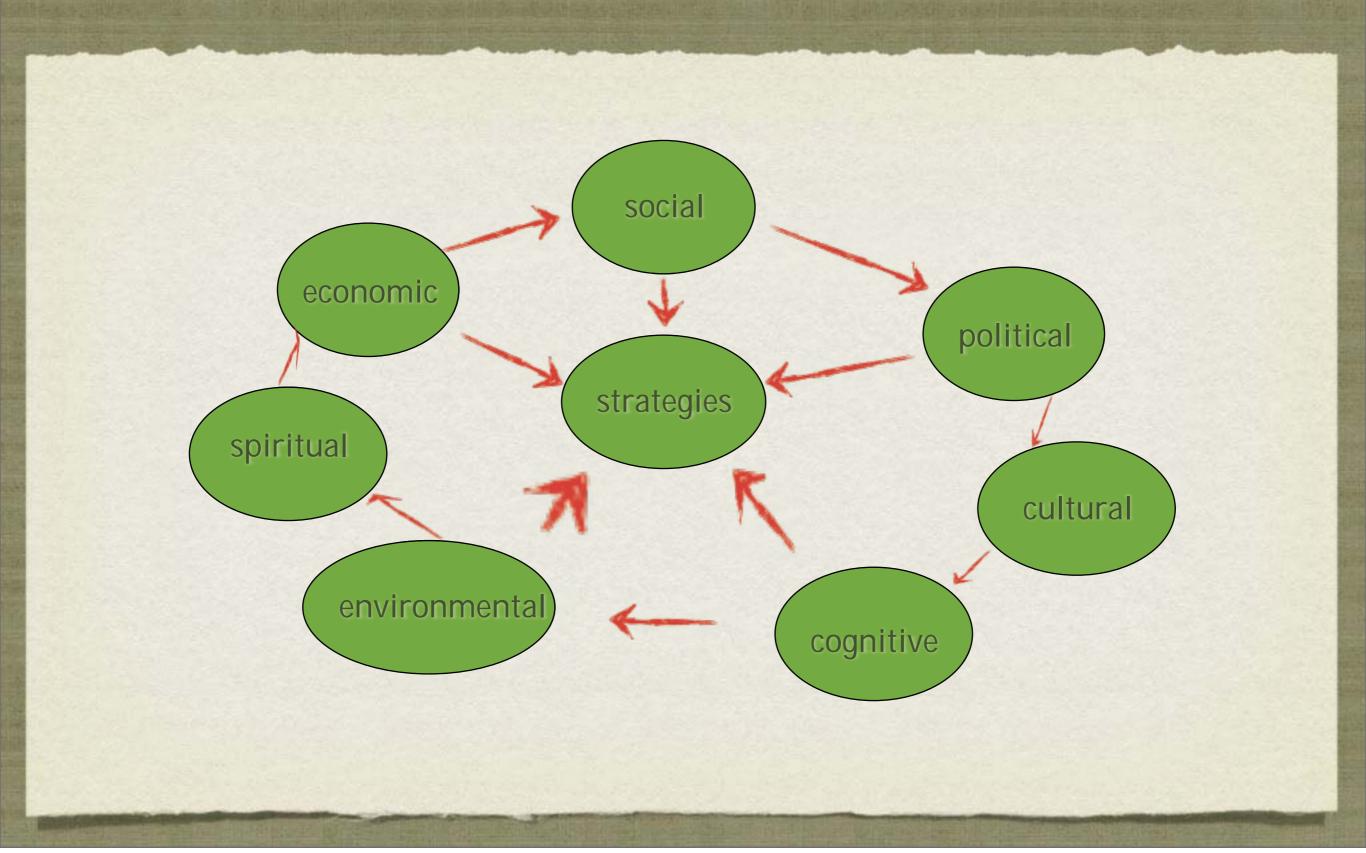
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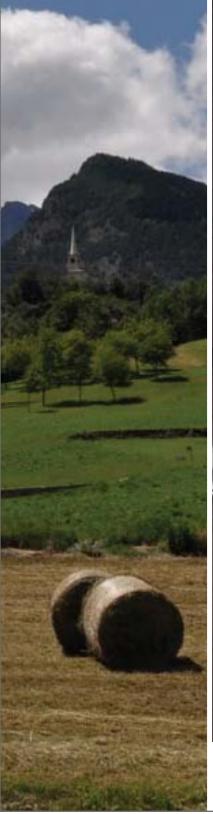


Friday 11 July 14

Conceptual framework



Mobility





Friday 11 July 14





Friday 11 July 14





Friday 11 July 14





Friday 11 July 14

Haymaking July - August





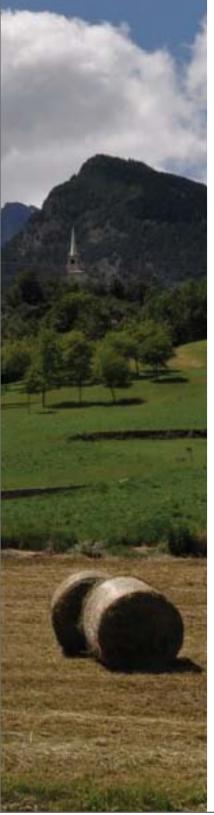
Friday 11 July 14

Haymaking





Friday 11 July 14





Friday 11 July 14



Friday 11 July 14





Friday 11 July 14





Friday 11 July 14





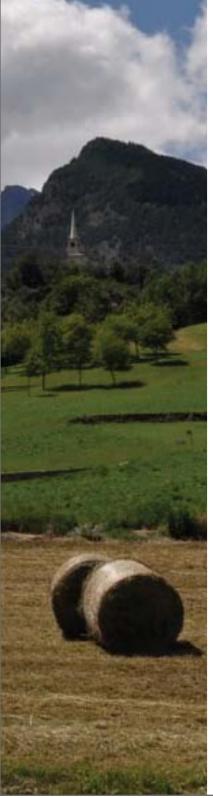
Friday 11 July 14

"Hay is ready when it makes a sound"





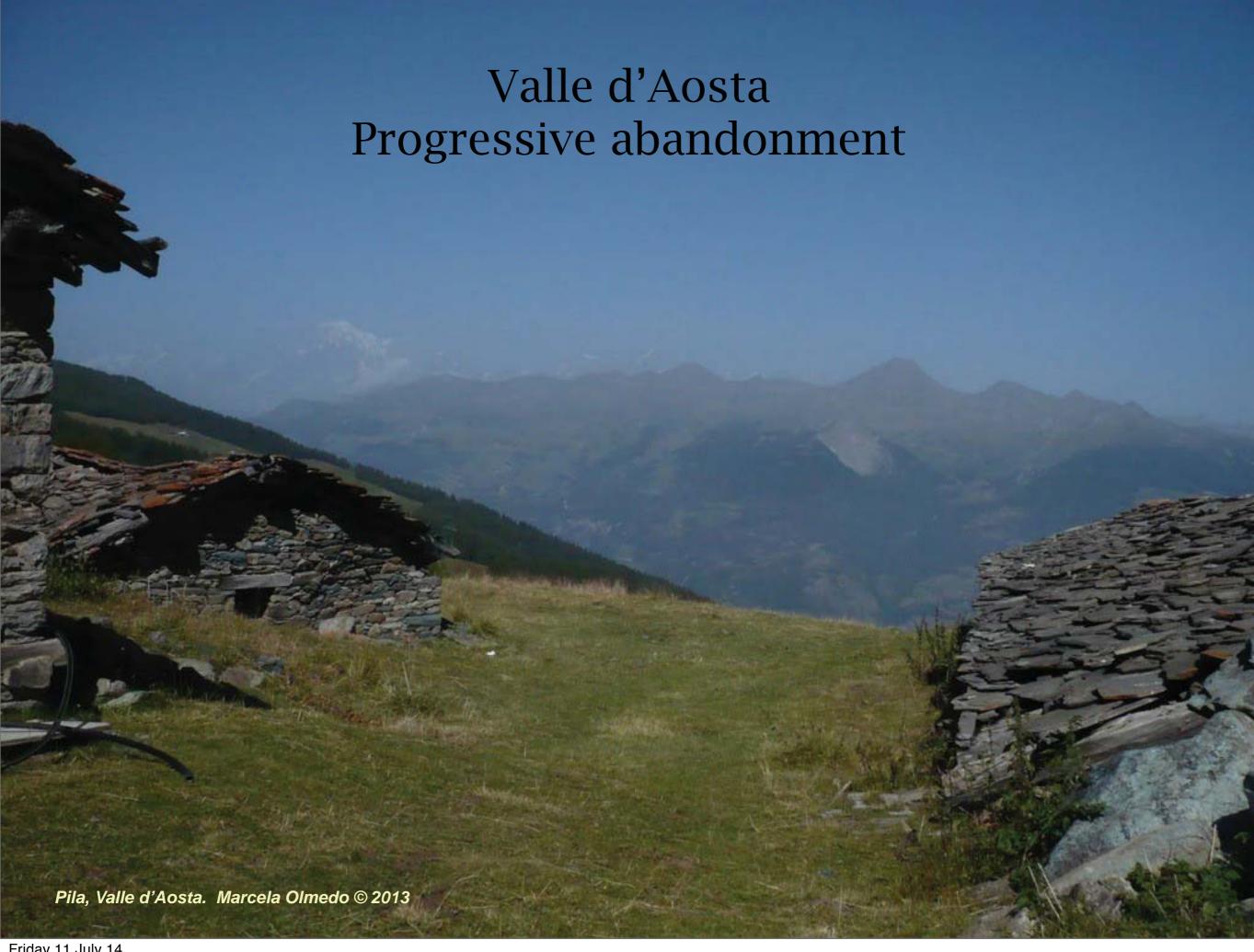
Friday 11 July 14





Friday 11 July 14





RESULTS

Explanations about abandonment:

- Forestry commission employing young since '80
- Labour dedication activity (24/24)
- Milk market not updated to current costs of production;
- Heavy beaurocracy

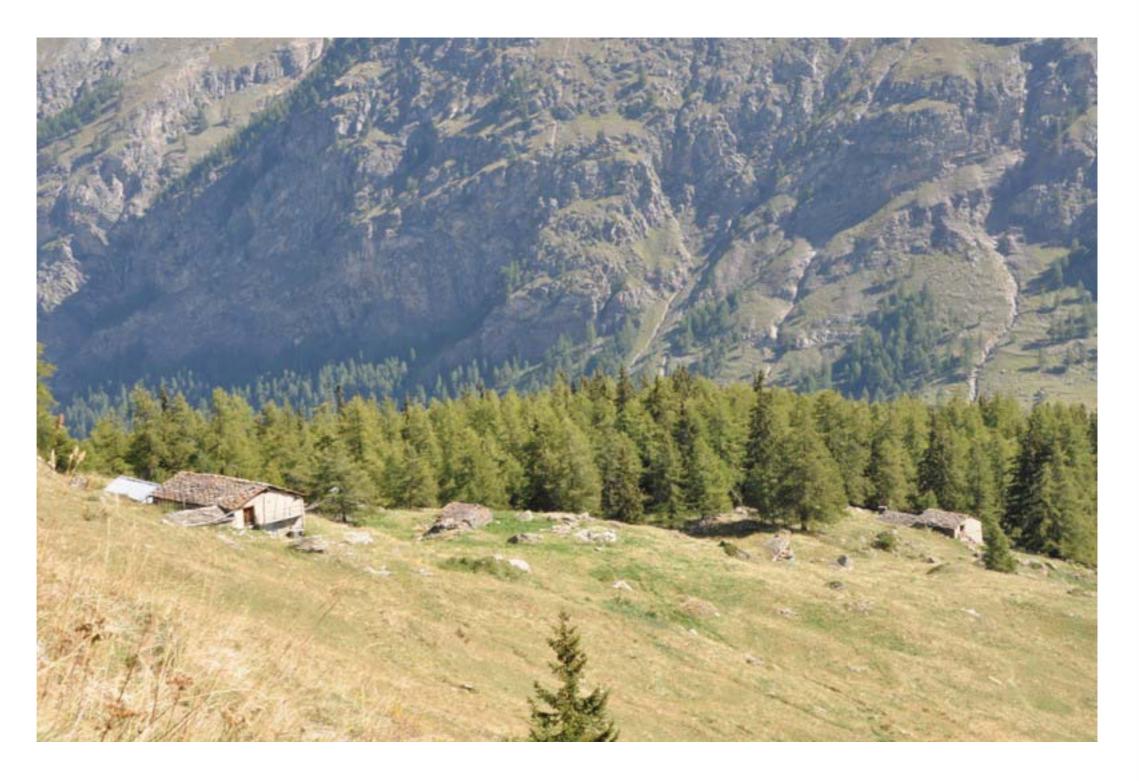
Pila, Valle d'Aosta. Marcela Olmedo © 2013



RESULTS

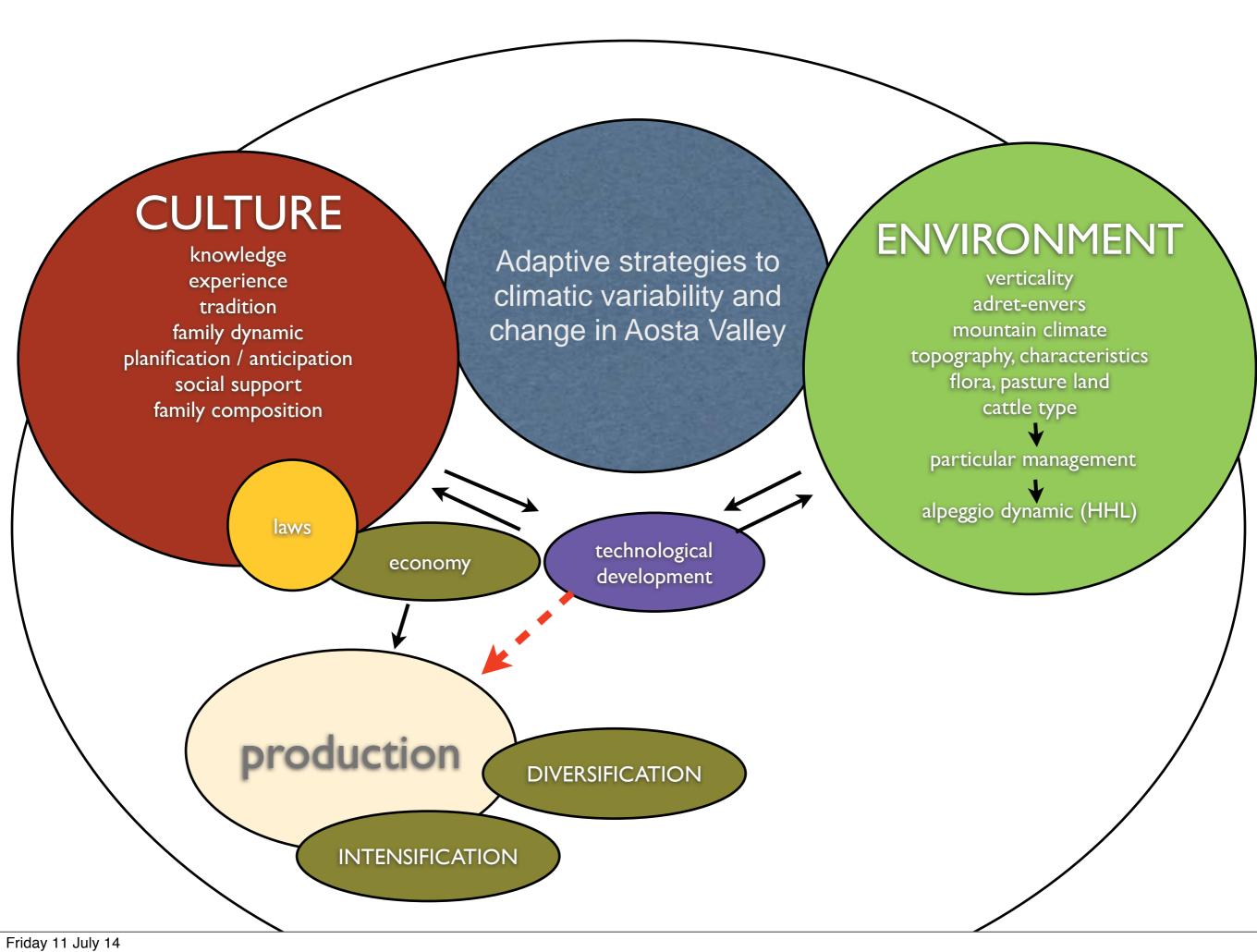
Ranking the difficulties of herding activity

• (1.beaurocracy, 2.employees, 3.Fontina market, 4.climate)



Friday 11 July 14





Results:

Diversification in favor of Intensification



Marcel Bich stable, Valsavarenche, Valle d'Aosta. Marcela Olmedo © 2012

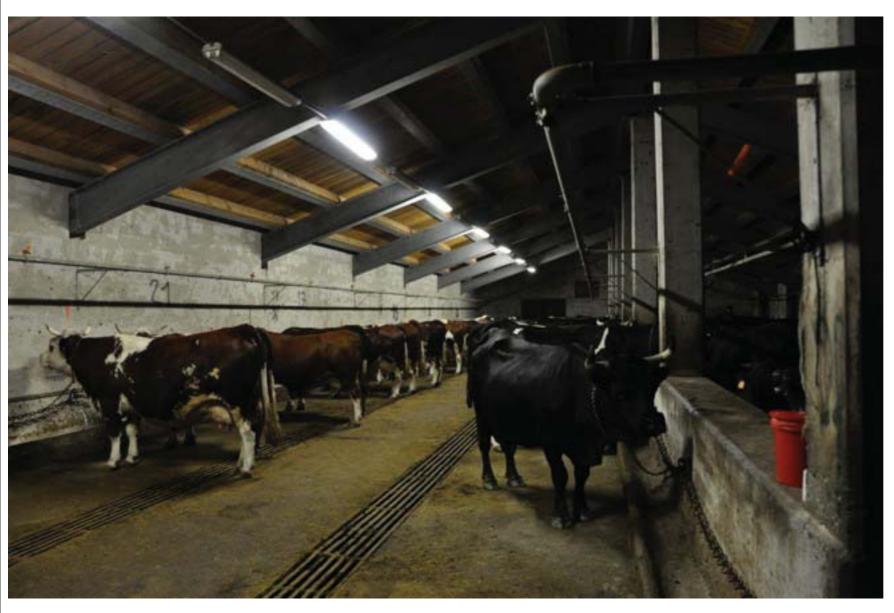


Alma Chabod stable, Valsavarenche, Valle d'Aosta. Marcela Olmedo © 2012

"We do it for passion"

Results:

Number of cattle are increasing





Gressan, Valsavarenche, Valle d'Aosta. Marcela Olmedo © 2012-3

Impact on resource? = new vulnerabilities?



Institutions and Future Challenges

FAO

Challenge 1: Improving the resilience and adaptation of agricultural and food systems to climate change

Challenge 2: Achieving more with less in food production and consumption

Challenge 3: Conserving, protecting and enhancing the state of natural resources

Challenge 4: Improving and safeguarding rural livelihoods and social welfare



Institutions and Future Challenges

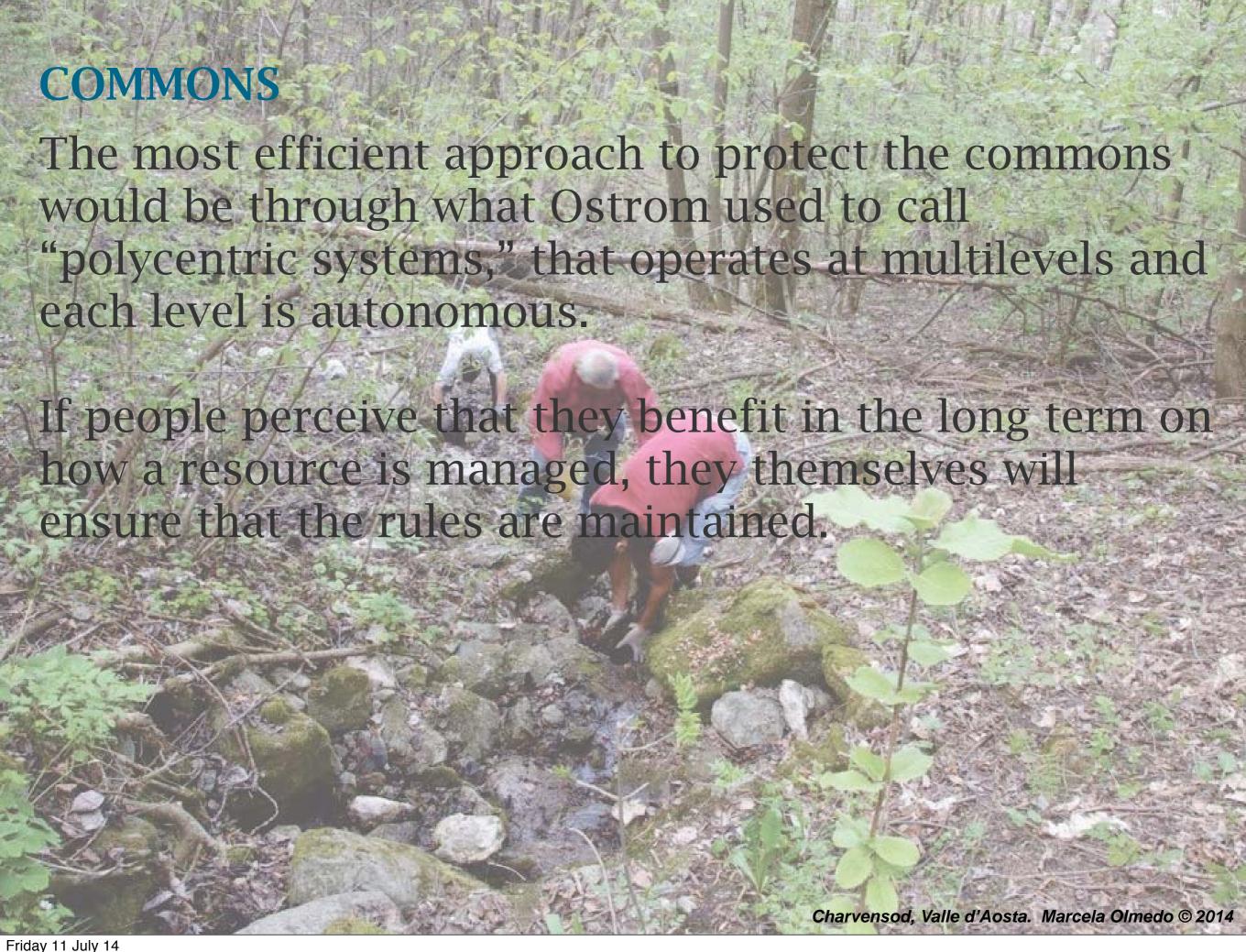
Implementation of the EU Adaptation Strategy is based on eight actions

- 1. Encourage all Member States to adopt comprehensive adaptation strategies
- 2. Provide LIFE funding to support capacity building and step up adaptation action in Europe (2014-2020)
- 3. Introduce adaptation in the Covenant of Mayors framework (2013/2014)
- 4. Bridge the knowledge gap
- 5. Further develop Climate-ADAPT as the 'one-stop shop' for adaptation information in Europe
- 6. Facilitate the climate-proofing of the Common Agricultural Policy (CAP), the Cohesion Policy and the Common Fisheries Policy (CFP)
- 7. Ensuring more resilient infrastructure
- 8. Promote insurance and other financial products for resilient investment and business decisions



Rural world, Challenges and Adaptation

- Adapting taking into account the impact on the common resources?
- Adapting through new types of governance that go beyond Market and State?
- Adapting passing from an economy of possessing to an economy of sharing?
- Adapting enhancing the institutional platforms and capabilities?





Adapting through the application of (traditional, local, indigenous) Knowledge?



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Knowledge as an instrument of Governance = Adaptation?



Friday 11 July 14

World café



Friday 11 July 14



World café

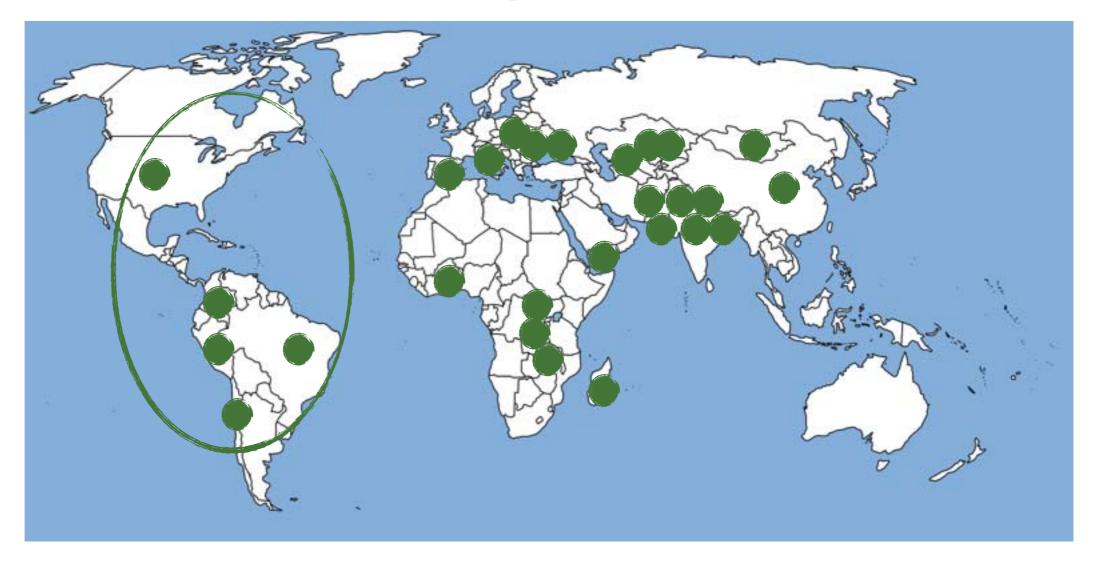
Definition Aim Potential Performance

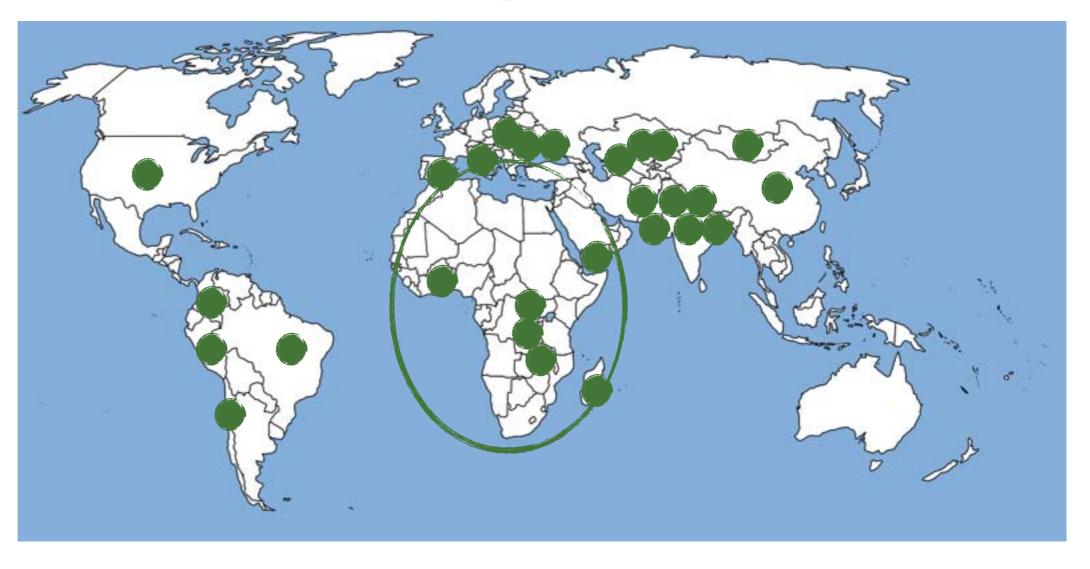
World café -

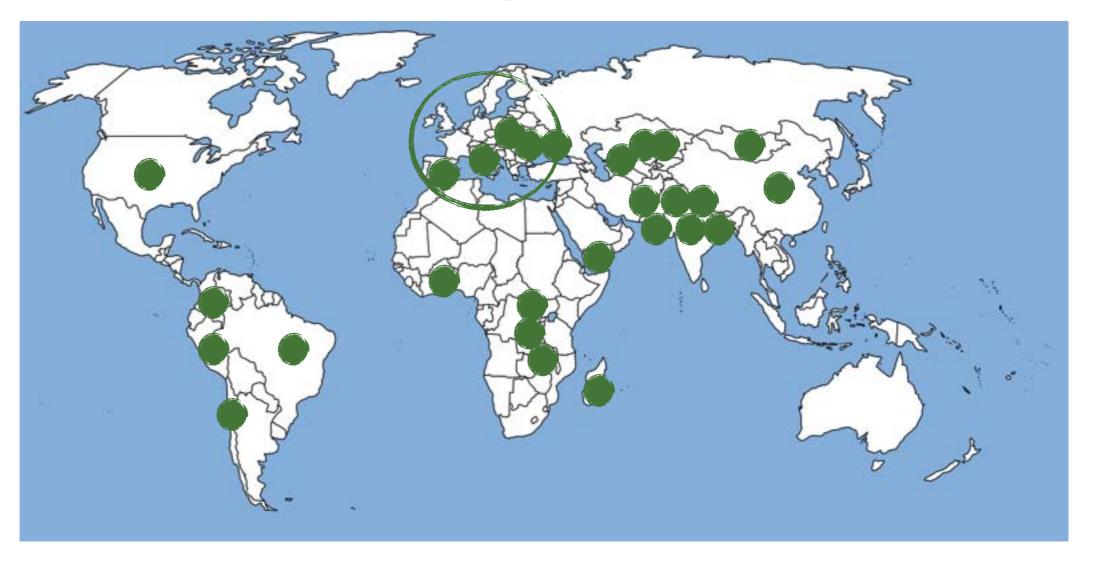
- simple and clear questions
- provokes reflections
- generates energy
- focuses the objectives
- brings up unaware hypothesis
- promotes possibilities

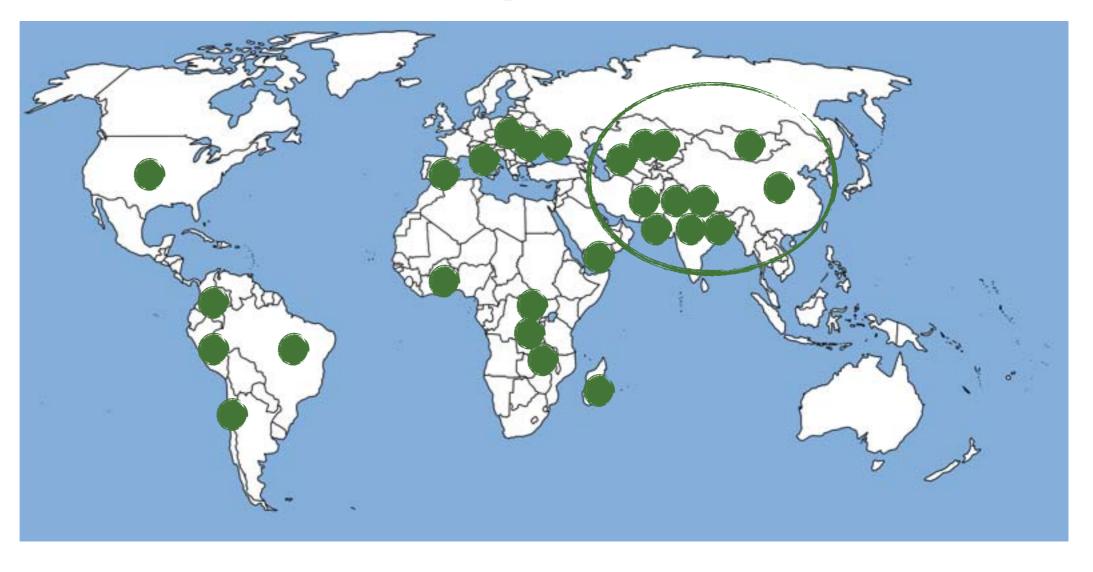












World café

Activity



- 1. Critical points / weakness: What are the sustainable issues most heard in your country /area of work? (in rural context) brainstorm
- 2. Put them into Categories
- 3. Reflect
- 4. What did you learn in this school so far that can bring skills/mechanisms to tackle them?
- 5. what mechanisms, factors, facilitate or obstacle adaptation?



culture-nature: Abandonment of the activity

Globalization

Diversification in favour of intensification

Mechanisation

The implications of ...

Sustainability and landscape management

Sovereignity loss

Pressure on environmental sustainability

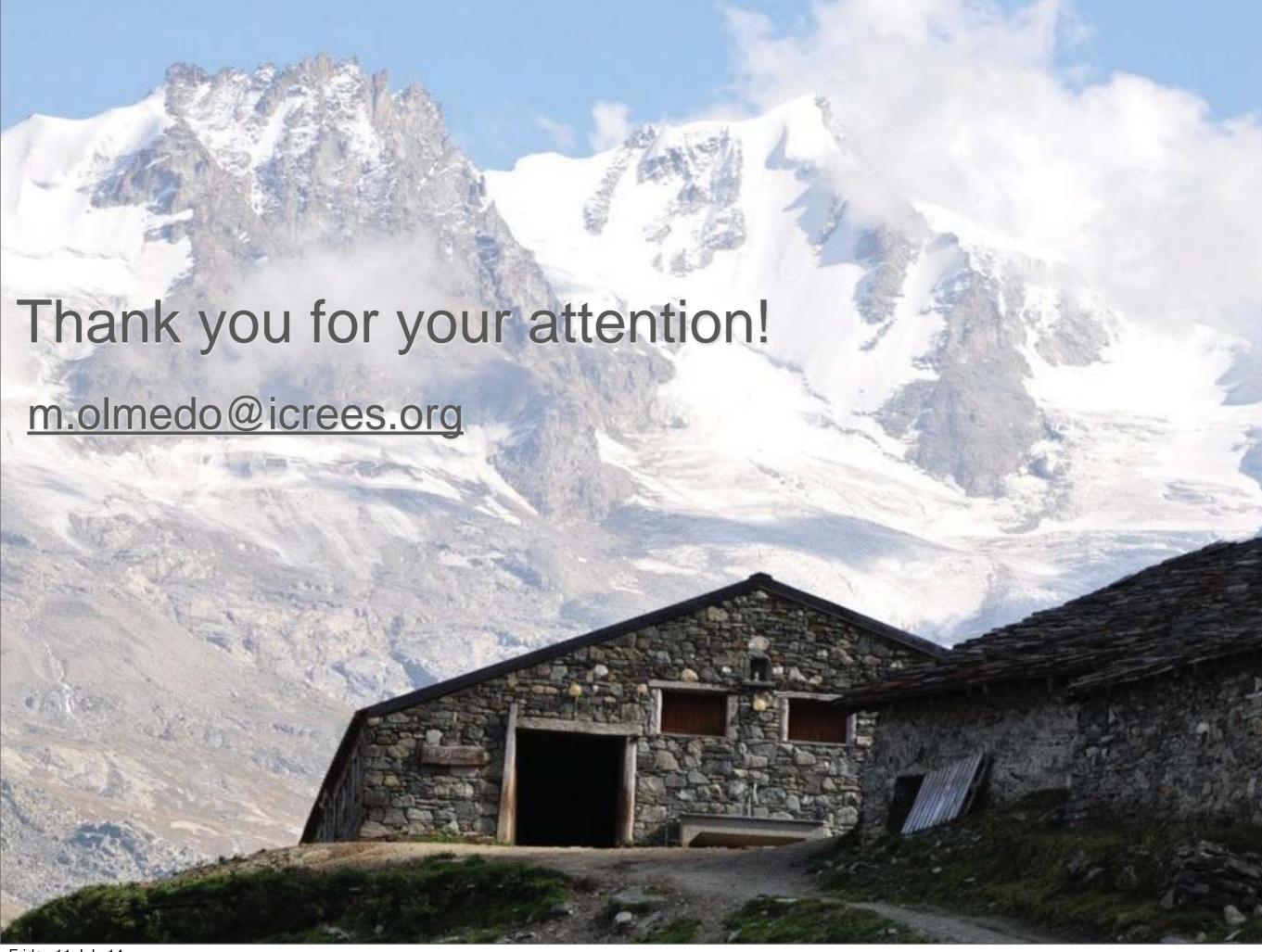
Territorial balance

World café Applied tools

- capacity building;
- improve formation on that topic;
- cooperation;
- knowledge exchange;
- governmental subsidiaries;
- self sufficiency
- challenges









Bibliographic sources



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Tompkins, E.L., Eakin, H., Managing private and public adaptation to climate change. Global Environ. Change (2011), doi:10.1016/j.gloenvcha.2011.09.010

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