

ALPTER: Terraced landscapes of the alpine arc
Project co-funded by the European Union

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European Union

Interreg III

Réunion Alpter, Tende, mai 2007

Terrasses et risques dans la haute vallée de la Roya

J.-M. Castex et A. Dagorne, géographes
avec la collaboration SIG de M. Ben Jeddou
et G. Davtian (Nice - ADI)

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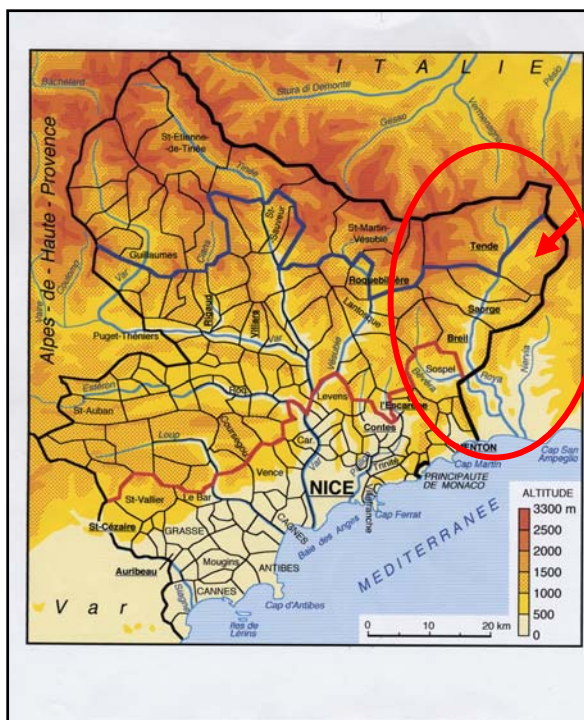
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La haute Roya, un territoire au relief de forte énergie



Budget dévolu au réseau routier du département long de 2 650 km : 200 M. €, et 20 M. € consacrés à la surveillance et l'entretien des 860 km de routes à risques.



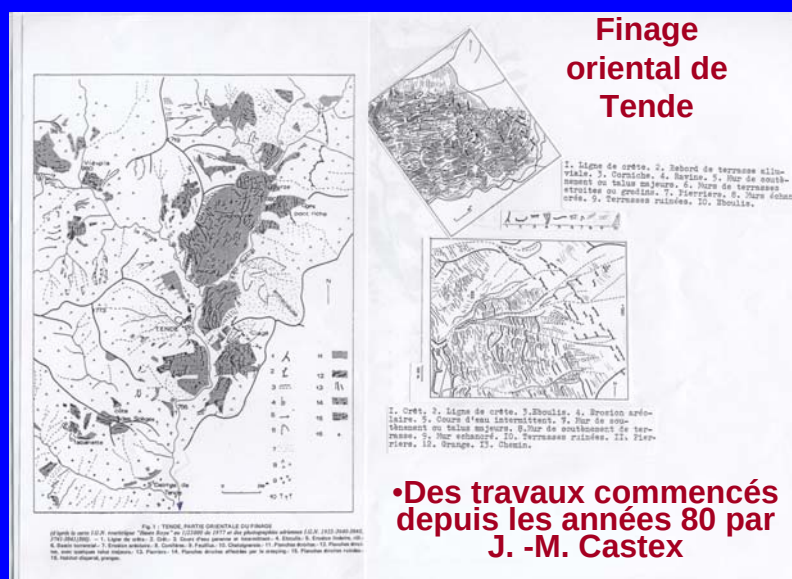
Le bassin versant de la Roya - Bévéra



Des terrasses encore bien entretenues près du village

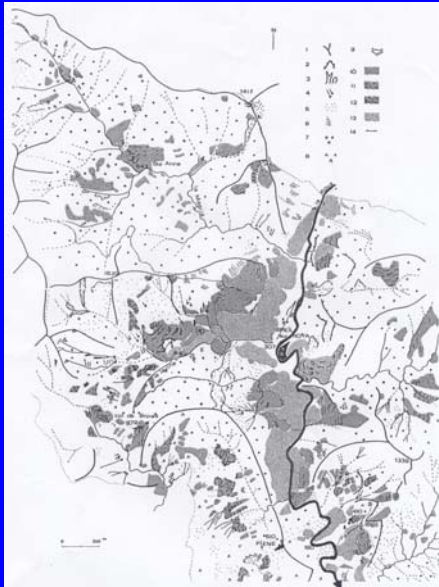


Un espace où les pentes ont souvent été aménagées en terrasses



•Des travaux commencés depuis les années 80 par J. -M. Castex

Le secteur de Breil-sur-Roya



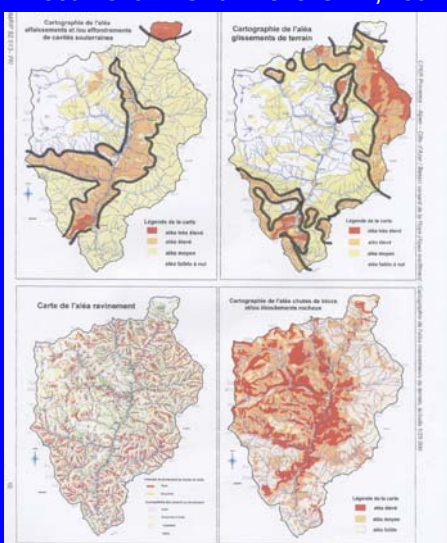
Légende

1. Ligne de crête
2. Crêt/chevron
3. Bassin torrentiel
4. Erosion linéaire (rills)
5. Erosion aréolaire
6. Eboulis
7. Feuillus
8. Conifères
9. Rebords de larges planches
10. Planches étroites
11. Planches étroites avec creeping
12. Planches étroites ruinées
13. Planches à oliviers
14. Canal d'irrigation

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Des espaces à risques naturels

Document BRGM/RP 52513-FR, 2002



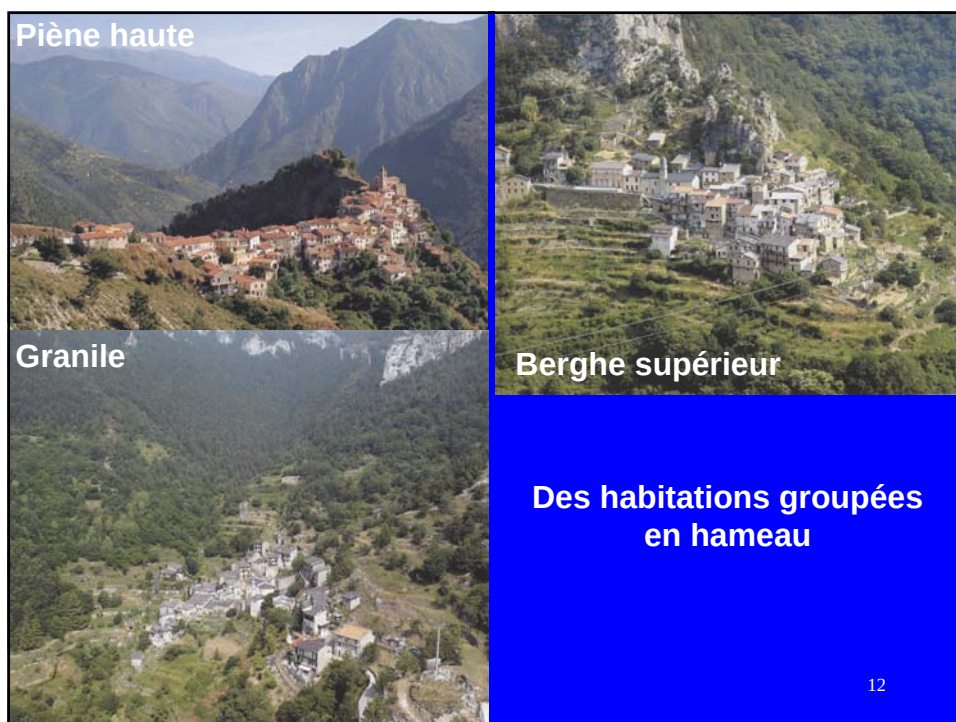
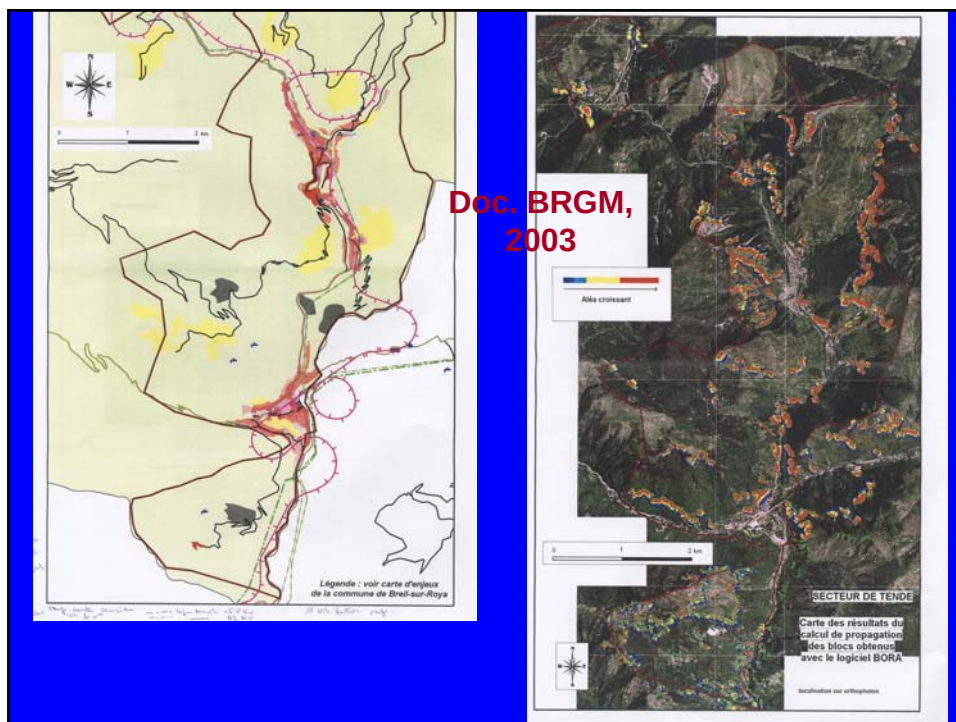
Document Nice-Matin

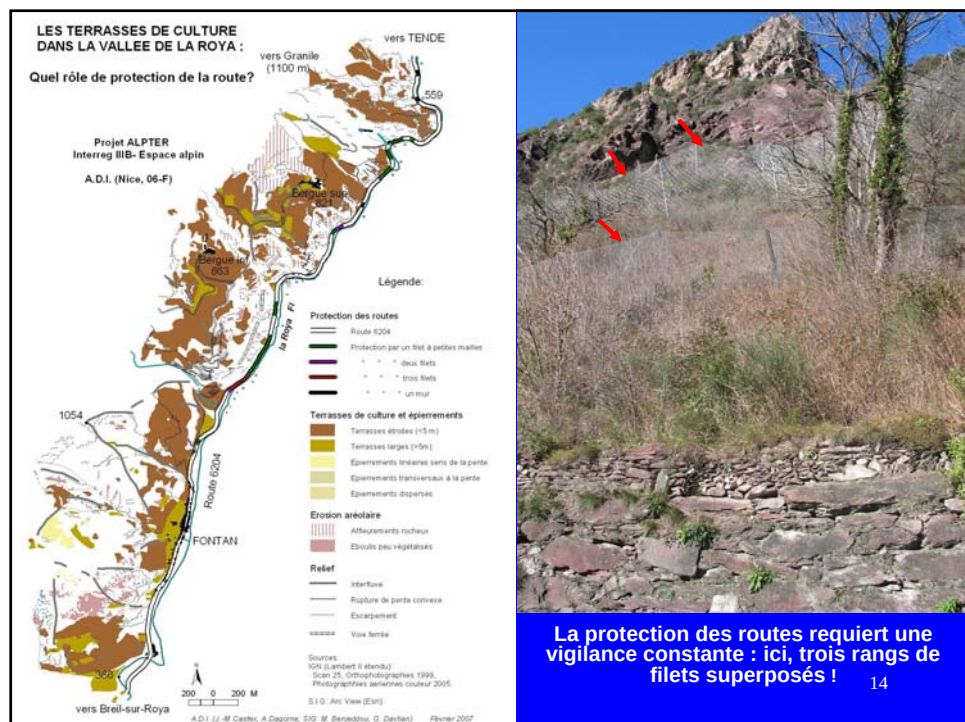
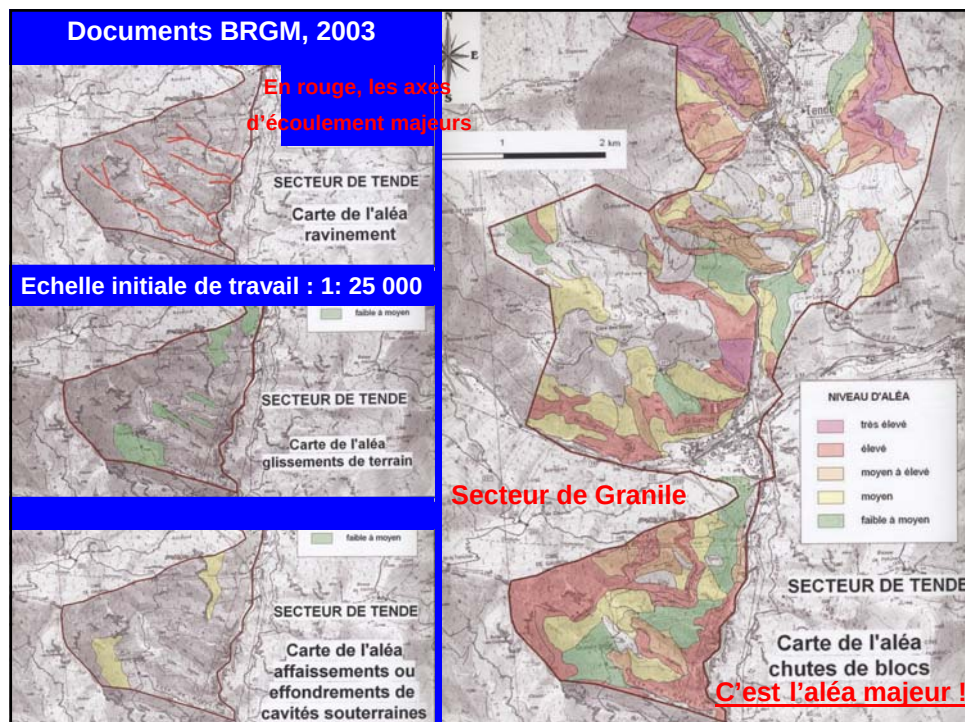
Les éboulements perturbent les réseaux de transports : route et voie ferrée.

Echelle initiale de travail : 1:50 000

Dans la vallée, le risque majeur est la chute de blocs et/ou l'éboulement

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ALPTEr: Terraced landscapes of the alpi
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ALPTEr European Union Interreg III B

Réunion de Tende, 10 - 11 mai, 2007

Les espaces de terrasses dans la haute vallée de la Roya (Hameau de Granile, Alpes-Maritimes, France)

Jean - Marie Castex, géographe avec la collaboration de
M. Benjeddou et G. Davtian pour les SIG.
Tende 2007

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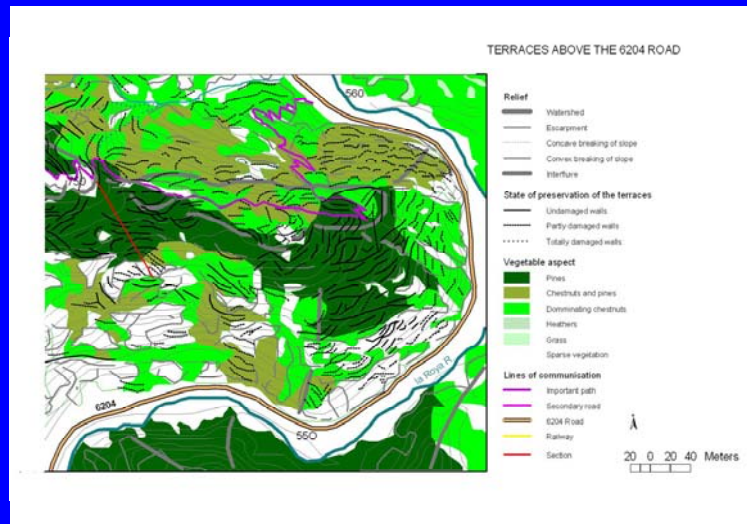
Terraces of Granile (Tende, 06-F)

This site seems very rich:

- Density of terraces
- Undamaged or partly damaged terraces
- Many chestnut-trees despite deep slopes
- A weak erosion
- A problem: pines are invading
- What protections possible are?

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A zoom on the sector of the vineyard above the road.



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An astonishing good state of conservation



Pines are invading the abandoned terraces



In the ancient vineyard the walls are still undamaged

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But erosion is menacing



Linear erosion along a path
in sandy soils.

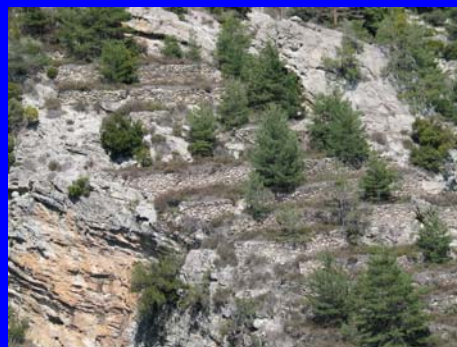
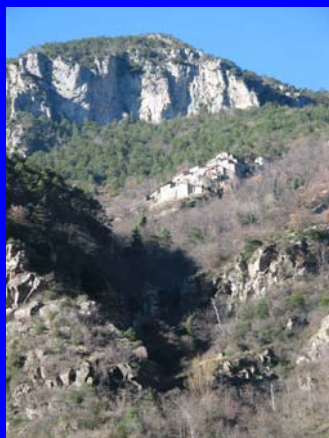
Breaks in terraces
with sandy soils



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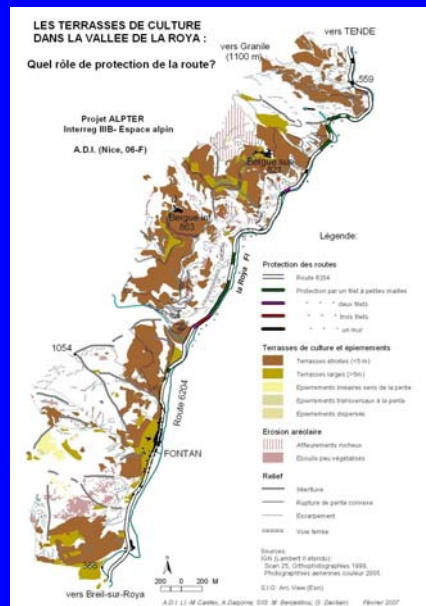
Do the terraces protect the road?

The road was built at foot of slopes
arranged by the man



The framework of terraces can stop the stones

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Some protection works fitted on the slopes have been drawn and coloured on this map along the road:

steel nets or walls.

The map lets to see a global correlation (to study thoroughly):

protective works are:

- absent where terraces are

near the road

- but present where the

terraces are distant of the road.

Hypothesis:

does the protection of the road by steel nets have priority when there are no terraces?

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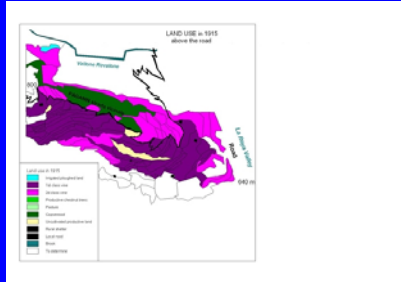
Actual works of protection
against the stone falls: steel nets
and dry stone walls



The last walls of terraces above the road.

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Vestiges of the old vineyard



The cadastral map of 1915 shows the surface specialized in the culture of the vine



A traditional equipment for the wine production.

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The soils of Granile

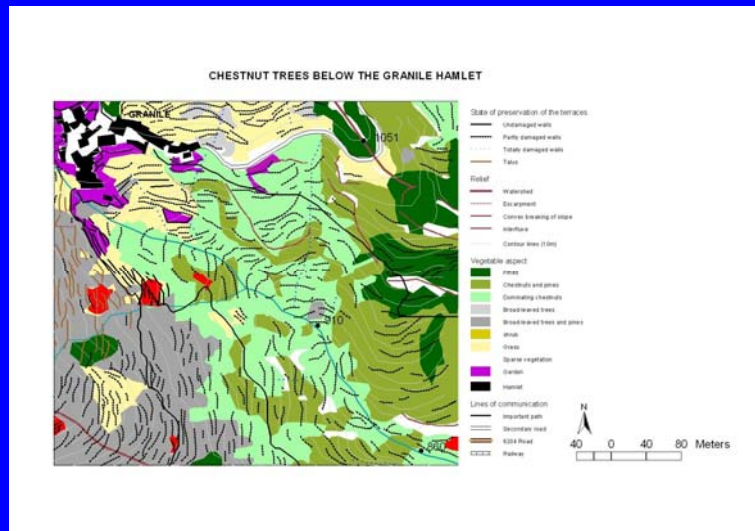
The hamlet of Granile occupies a situation of contact between the various sectors of a mountain environment.



A brook, *le Valera*, supported the creation of the hamlet, irrigated gardens and a chestnut grove.

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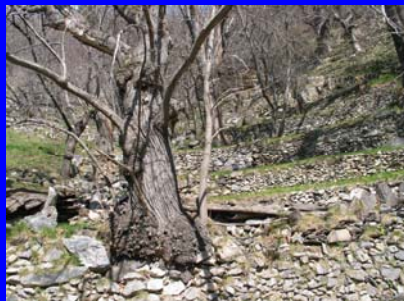
A zoom on the sector of the chestnut grove.



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The chestnut grove: a major capital.

The walls remain in good condition in spite of the deep slopes in a well kept up chestnut grove.



The grass protects the stripes irrigated under the chestnuts.

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The stakes of the chestnut grove.



Will the chestnuts begin again places to them at the pines?



The state of conservation of the chestnuts, walls, and slopes is dependant.

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Terraces and vegetation



In this small dry valley the broad leaves and brooms are growing only on terraces after the 1990 fire.

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The old human works are protection factors for the actual environment.

The old human works are protection factors for the actual environment.



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Remerciements

- À la Mairie de Tende ;
- à l'Office national des forêts (ONF), Nice ;
- au service de la Restauration des terrains en montagne (RTM), Nice ;
- au BRGM, Marseille;
- À l'association Patrimoine et Tradition de Granile.

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