



CoSviG: Consortium of Geothermal Areas



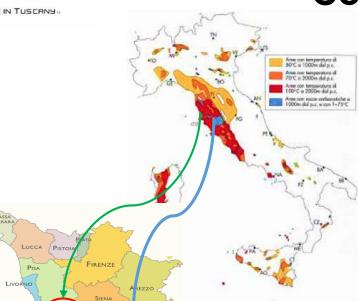






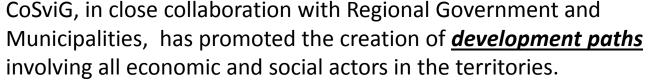






Regional Agency to support local development in geothermal areas, owned by

- 14 Municipalities
- 2 provinces
- 4 consortium of municipalities
- **Tuscany Region**



A *roadmap for sustainability* was conceived from the diversification in production and use of energy (GEOTHERMAL ENERGY, mainly) from renewable sources, combined with the social, cultural and environmental features of the area and technological innovation chances.

Actions related to this model can produce results for *new development schemes* for the communities, consistent with the country's land development strategy, and in ...... cooperation with the private sector.

### **GEOTHERMAL ENERGY – opportunity and challenge**

- Renewable energy resource
- Strategic for Tuscany, Italy, and Europe
- It have to be fostered in a sustainable way
- It allows improving identity roots of a territory, since ages Tuscan populations used it daily the warm from the heart of earth
- It can support/supported by innovation and technological opportunities



## **GEOTHERMAL EXPLOITATION and Governance**

- The exploitation of geothermal energy is continuously growing across the world and in Europe, despite the potential available would allow a further development of the geothermal market.
- New challenges have emerged for geothermal. Currently, a further expansion of this market is indeed limited by some social and environmental concerns, often closely linked to technological constraints.
- In order to overcome these problems and continue to expand the use of geothermal energy and continue increase the use of the heat of the Earth, both for electricity and heat, a new model of governance which respects territories and boost sustainable development is necessary.
- In next future (2020), by the medium term horizon (2050) It should be found a synthesis among purposes, expectations and contrasts inside the communities, towards sustainable development of geothermal potential, respecting the vocation of territories and communities and supporting private businesses.















Geothermal areas in Tuscany are the ideal place for a living laboratory, where the constant search for the right balance between natural resources, innovation, technology and historic and landscape heritage has led the efforts of local communities.

It represents an example of best practice of economic system of innovation-oriented technology transfer for the promotion of a model based on renewable energy and sustainable dynamic preservation. In order to promote the local socio-economic development, also through compensations to municipalities on which there are geothermal exploitation permits, in 1988 local authorities of the traditional geothermal area funded the Consortium for the Development of Geothermal Areas (CoSviG), also with the aim of coordinating technical and financial fulfilments in charge to local authorities, to manage these funds.





## General Agreement on Geothermal













- From 2007, mechanisms to redistribute revenues of the geothermal energy exploitation were set up, in order to advantage local populations but also to improve the environmental impact of industrial activities.
- The main goal of Agreements is to propose a local development model in line with the vocations and the local economic traditions of these territories.
- CoSviG has promoted the creation of development paths involving all economic and social actors in the territories. A roadmap for sustainability was conceived from the diversification in production and use of energy from renewable sources, combined with the social, cultural and environmental peculiarities of the area and technological innovation. Actions related to this model can produce results for encouraging or multiplying design, even private, consistent with the country's land development strategy.



# "Good, Clean and Fair"















The "Renewable Energy Food Community," in Tuscany commonly called "Food Communities" is a free association which is aimed to the preservation of species, of varieties and of animal breeds and traditional herbal and/or local, at risk of genetic erosion, and cultural productions derived from materials derived raw exclusively from Tuscany and utilizing mainly renewable energies.











#### Dr. Loredana Torsello

#### **CoSviG – Consortium for Development of Geothermal Areas**

Executive manager and responsible for technology transfer, international projects Cluster manager DTE-Toscana— Regional Technological District for Energy and Green Economy.

Co-Chair SET Plan Temporary Working Group Deep Geothermal



precious attention!

l.torsello@cosvig.it