


**From a Grafted Vine
to a Glass of Wine**

Sustainability Of the Wine

Grapevine Haifa Seminar
Valdobbiadene – Treviso - 3 September 2013
Giovanni Rizzotti
Responsabile Sviluppo Progetto Tergeo



Unione Italiana Vini's activities



- It is the main Italian trade union for wine and spirit producers
- it represents about 500 companies (70% of the export value of Italian wine)
- It is a lobby group (Confederazione Italiana della Vite e del Vino)
- It a technical and legal consultancy





Unione Italiana Vini
since 1891

Laboratory Network
-Verona, Asti, Lecce, Reggio Emilia, Siena
-600,000 analyses on musts and wines every year

Consultancy on quality system management

Publishing
-Corriere Vinicolo (the only weekly Italian magazine for the wine industry)
-Corrierevinicolo.com (daily on line)
-Codici di legislazione (codes of law for vine and wine, appellations of origin)

Events
-Simei: Enological Equipment Exhibition
-Enovitis: Machinery and Techniques for Viticulture Exhibition



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Sustainability a word for all seasons

- sustainable consumption
- sustainable development
- sustainable growth
- sustainable industry
- sustainable agriculture
- sustainable work
- etc. ... etc




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Sustainability a word for all seasons


- consumption must be sustainable
- sustainable development
- sustainable growth
- sustainable industry
- sustainable agriculture
- sustainable work
- etc. ... etc

how to define sustainability




Sustainability: an old concept

“In a forest only as much wood as the forest can produce, in the same amount of time, should be cut down”



Hans Carl von Carlowitz 1645 – 1714
accountant and mining administrator



Sustainability emerges in times of crisis and scarcity of resources

- Rachel Carson's "Silent Spring" 1962
- Aurelio Peccei "The Limits to Growth" 1972



Sustainability Milestones

1972 United Nations Conference on the Human Environment

1983 World Commission on Environment and Development (WCED) established by UN and chaired by Gro Harlem Brundtland

1987 Report Brundtland "Our Common Future"

1992 Rio de Janeiro -the first UN Conference on Environment and Development (UNCED)

1993 Italy - Action Plan for Sustainable Development

1994 Aalborg (Denmark) First European Conference on Sustainable Cities and Towns

2001 6th EU Environment Action 2002/2010 Our Future, Our Choice

2002 Johannesburg World Summit on Sustainable Development.

2009 Directive 2009/128/CE – Framework for a community action to achieve the Sustainable Use of Pesticides

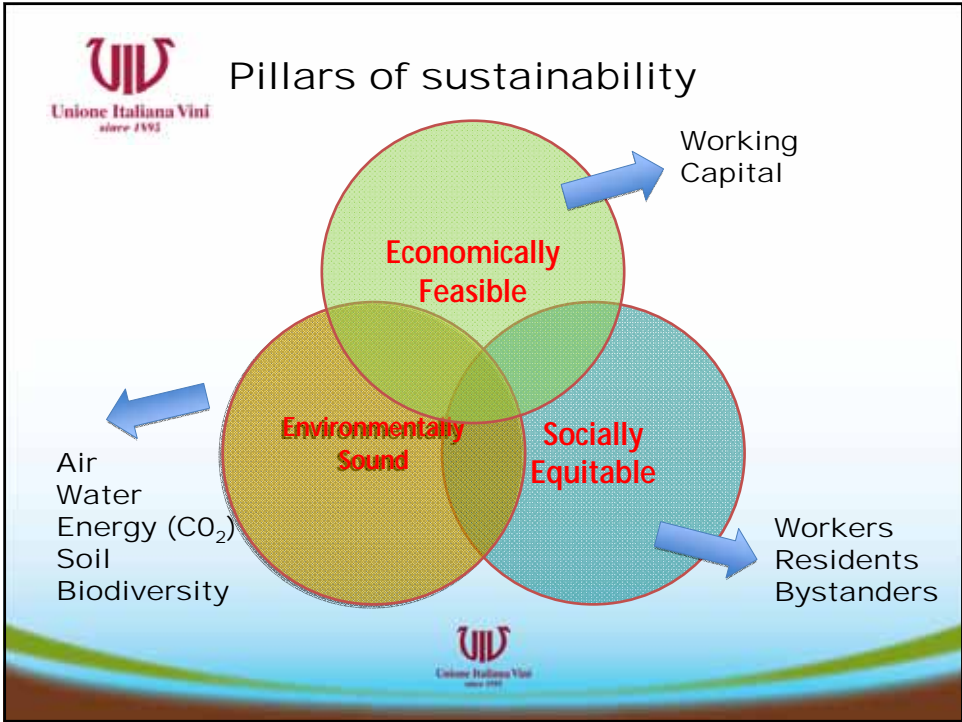


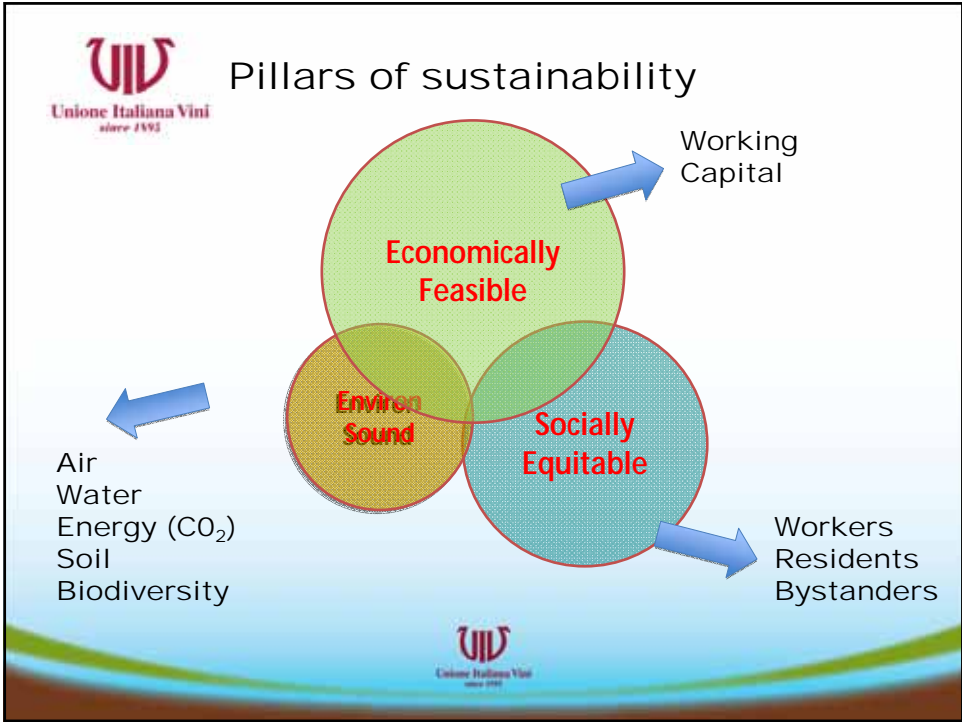
 **Brundtland Rapport**

“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs”
(Our Common Future - 1987)









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Sustainability in the World

- Usa (8)
 - CSWA California Sustainable Winegrowing Alliance
- Australia (2)
- New Zealand (1)
- South Africa (1)
- Chile (1)
- France (3)
- Germany (1)
- Spain (1)



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California Sustainable Winegrowing

www.sustainablewinegrowing.org



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California Code of Sustainable Winegrowing Workbook

15 chapters 227 Items

Sustainable Business Strategy
Viticulture
Soil Management
Vineyard Water Management
Pest Management
Wine Quality
Ecosystem Management
Energy Efficiency
Winery Water Conservation And Quality
Material Handling
Solid Waste Reduction And Management
Environmentally Preferred Purchasing
Human Resources
Neighbors And Community
Air Quality



California Sustainable Winegrowing

Self-assessment (since 2002)

1,800 vineyard and winery organizations
72% of California's winegrape acreage
160,000 hectares out of a total of 220,000

Certification (since 2010)

56 wineries
178 vineyards
12% of statewide winegrape acreage
26,000 hectares



Sustainability Projects in Italy

- Tergeo
 - Viva
 - Magis
 - Sostain
-
- Salcheto Carbon free
 - Montefalco 2015
 - Ita.Ca
 - Casa Klima
 - Regions and Provinces
 -
 - Forum of Environmental Sustainability of Wine

tergeo



Magis



Sustainability Projects in Italy

Magis

- www.magisvino.it

- Bayer, scientific community

- 74 vineyards and wineries



Innovazione continua
per la competitività, l'ambiente e la salute



Sustainability Projects in Italy

Viva



LA SOSTENIBILITÀ
NELLA VITIVINICOLTURA
IN ITALIA

[-www.viticolture sostenibili.org](http://www.viticolture sostenibili.org)

-Ministero dell'Ambiente, Opera Unicatt,
Agrinnova Unito, Centro Ricerca sulle
Biomasse Unipg

-9 vineyards and wineries



Sustainability Projects in Italy

Viva



LA SOSTENIBILITÀ
NELLA VITIVINICOLTURA
IN ITALIA



V.I.V.A. SUSTAINABLE WINE



TERRITORIO ARIA VIGNETO ACQUA

MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE



Sustainability Projects in Italy

SOSStain



-www.sostain.it

-Sicily Region

-2 Wineries (Tasca D'Almerita e Planeta)



Sustainability Projects in Italy

Forum della sostenibilità ambientale del vino

(Forum of the Environmental Sustainability of Wine)

-Gambero Rosso

-Unione Italiana Vini

-2 work groups:

- Communications;
- Technical

GAMBERO ROSSO

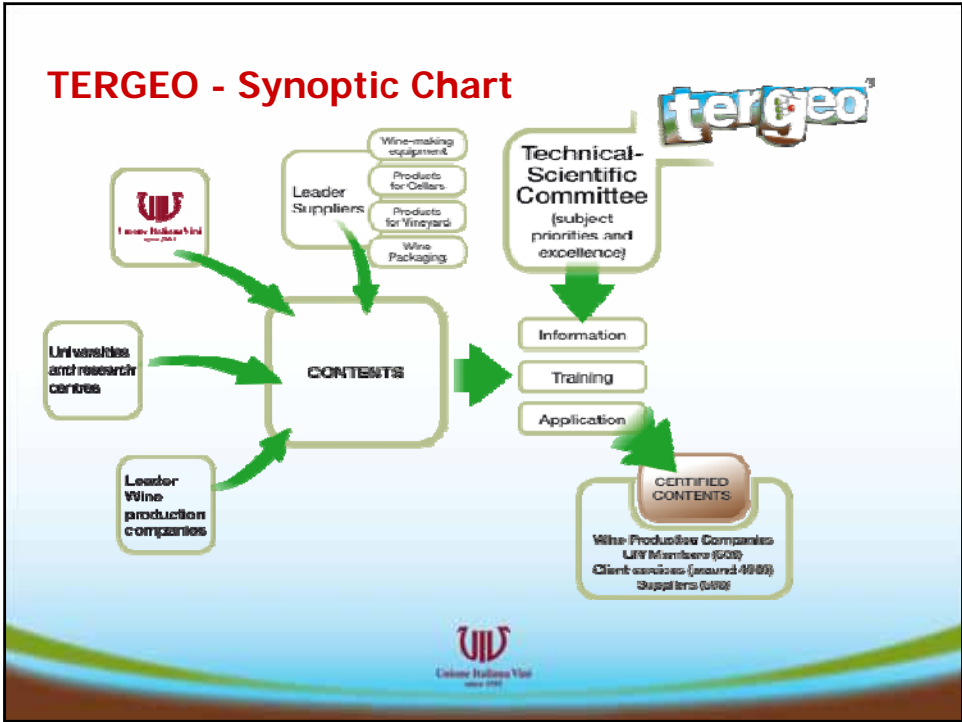




UIV and its sustainability program Tergeo

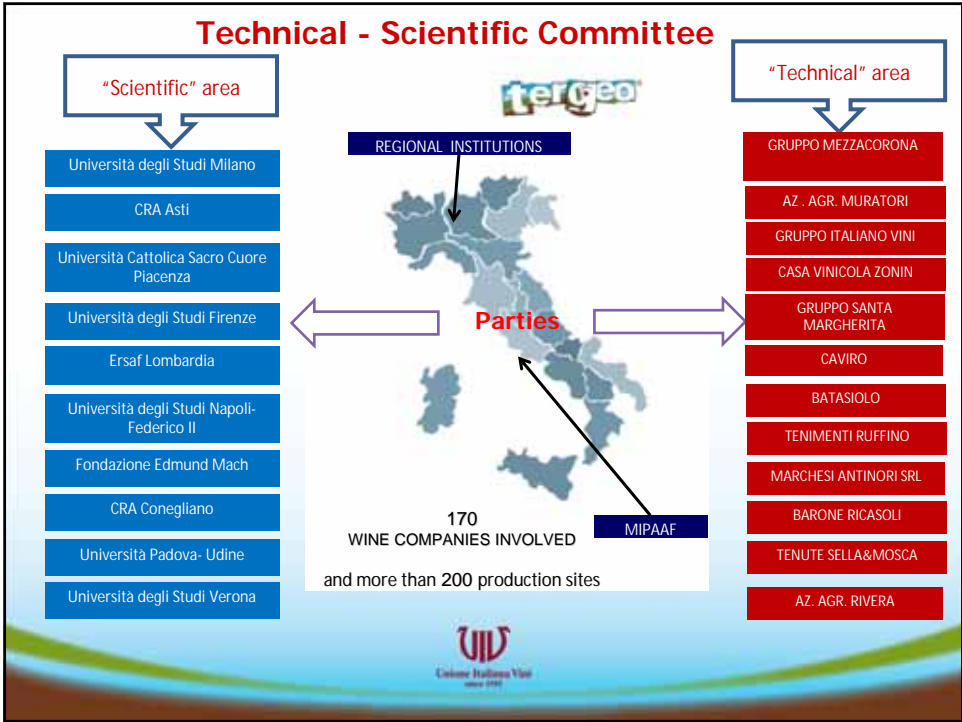
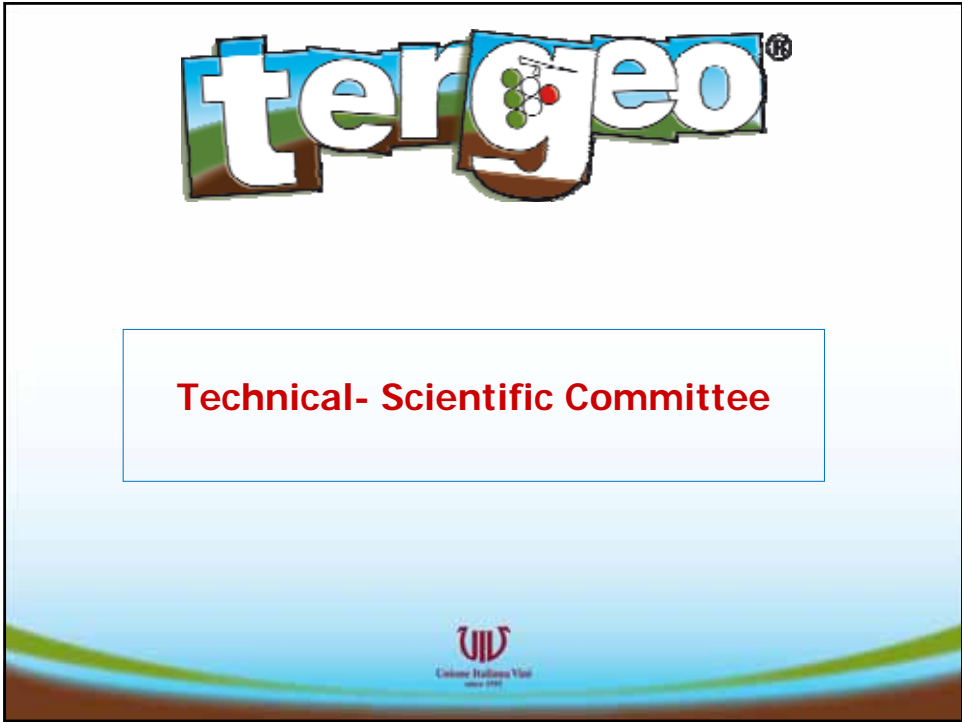


- Environmental, social and economic Sustainability program
- Involves all sector stakeholders





- Australia's "Sustaining Success" Strategy
- New Zealand Winegrowing Program
- South Africa's Integrated Production of Wine System (IPW)
- European Programs on Sustainability
- U.S. Initiatives – Especially the **CA Sustainable Winegrowing Program**
- FIVS (international wine industry trade association) also recognizes sustainability principles



Number of Participating Wineries per Region



ABRUZZO	2	MOLISE	0
BASILICATA	6	PIEMONTE	15
CALABRIA	2	PUGLIA	31
CAMPANIA	17	SARDEGNA	3
EMILIA ROMAGNA	8	SICILIA	6
FRIULI VENEZIA GIULIA	3	TOSCANA	25
LAZIO	20	TRENTINO ALTO ADIGE	2
LIGURIA	0	UMBRIA	2
LOMBARDIA	7	VALLE D'AOSTA	0
MARCHE	2	VENETO	13
		Total wineries	170

More than 200 production sites



Partners to date

(suppliers of products and services for viticulture and wineries)













Already "Approved" Contents

24 applications have been approved; they can be classified..


- By topic:
 - ❖ 20 Viticulture
 - ❖ 4 Enology
- By proposer
 - ❖ 12 Suppliers (Partners)
 - ❖ 5 Research Institutes
 - ❖ 2 Trade Unions
 - ❖ 1 Wine Company



Vineyard: Approved Applications

Training Courses

- Sustainable Use of Pesticides;
- Methods of defense through sexual confusion of insects;
- **Nutritional education about nutrition sustainable (water and mineral) of the vineyard - Nutrigration™**
- Biobed system for the disposal of wastewater from the treatment plant - Phytobac;
- New generation vine varieties resistant to disease
- Safety culture: selection and management of personal protective equipment for the use of pesticides




Vineyard Approved applications 

Field Trials


- Ita.Ca. – Italian Wine Carbon Calculator –in the vineyard and wine cellar.
- Characterization of the risk resulting from exposure to plant protection products for operators, bystanders, residents and company workers.
- **Nutritional sustainability of the vineyard with controlled-release granular fertilizers - MultiCoTech™.**
- **Sustainability nutrition (water and mineral) of the vineyard - Nutrigation™**
- Sustainable Quality Syngenta



Vineyard Approved applications 

Field Trials

- Application Technology: a method to reduce the pesticides dosage per hectare
- Operation Pollinator: practical solutions to foster the creation of adequate habitats to support the return and spread of pollinator insects
- Indicators to compare different methods of management of wild flowers in the vineyard
- Test on tractors and on other vineyard machinery to enhance the excellence in the vineyard mechanization
- Sustainable management of weeds in the vineyard
- Decision support system of vine cultivation- Vite.net
- Pre Lab Unit System: diagnostic tools for plant diseases



Winery Approved applications 

Training Courses

- Sensorial Analysis for companies' panel tests
- Audit on energy efficiency and renewable production for wine cellars
- The correct management of production processes in the wine cellar

Field Trials

- Evaluation of protocols for the use of microorganisms in order to reduce vinification related energy consumption



www.tergeo.it 





Poster of applications



The Best Practices Guidelines



- contain information that represent opportunities for sustainability improvement;
- focus in particular on a set of information about the **main hazards and risks** related to the management of the vineyard (health and quality of the grapes, vineyard workers safety, environmental impact and pollution);
- focus also on a set of suggestions, called "**best practices**", to minimize the risks, to fully comply with legal requirements, and to facilitate winegrowing activity



Self Assessment Matrix



The matrix is an evaluation grid of the sustainable performance of the vineyard, that has the following aims:

- Self-assessment of participating companies;
- Improvement of the average level;
- Promotion and sharing of sustainability practices;
- Evaluation of the sustainability "weight" of application certified by Tergeo
- Construction of a certifiable system and of a documented performance database.




The Matrix in the Vineyard



The grid is divided into the following chapters:


1. Installation and maintenance;
2. Soil;
3. Fertilization;
4. Irrigation;
5. Management of the plant;
6. Pest management;
7. Harvest;




Evaluation Scheme 


← Increasing sustainability

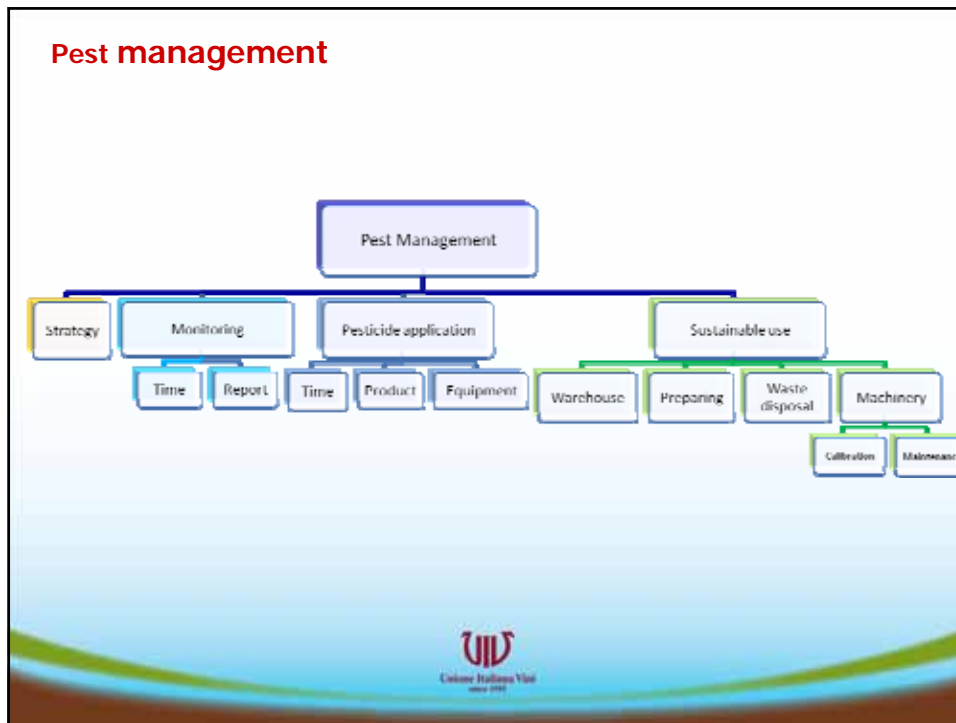
Topic									
Factor	1		3		2		1		0
Verification tool									


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4.2.3. Vineyard Water: source and quality 

Water Quality		The water used for irrigation is monitored annually;		The water used for irrigation is controlled occasionally;		The water used for irrigation is never controlled;			
Factor	1		3		1,5				0
Verification Tool	Verification of analytical data and of their completeness.								


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since 1999



Key elements of the Tergeo program

- Importance to have a **management strategy** (toward *reasoned viticulture*)
- Importance to have **support analysis** to explain management options adopted
- Rough but **flexible**
- **Improvable** as function of vineyard progress and Tergeo "certified" applications
- Link to the documents needed for **audit** and **certification** step



International Congress
on Wine Sustainability

Simei Enovitis

Milan
12 - 13 November 2013



- Where are we?
- Are we recognizable?
- How can we measure it?
- How do we communicate it?
- How do we improve it?



Sustainability
The right thing to do!

GRAZIE PER L'ATTENZIONE

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