How sustainable grape growing can contribute to local development

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organic viticulture as an example

by December 2013 the world organic vineyard was \textbf{311.959ha}

By December 2016 it was at least the double as Spain has more than 100.000ha, France and Italy almost the same and there is an important increase also in Central and Eastern Europe.

\textit{Organic wine is mostly European}
Organic viticulture = non synthetic pesticides?

That is only the outcome, but not the starting point!
Before and more importantly:

- where to plant a vineyard
- which plant (and root-stock) to plant
- how to manage the environment (ecological infrastructure)
- soil management
- canopy management

If all is done properly we can do without synthetic pesticides
All what is needed for a successful implementation of organic viticulture leads to

Authenticity... typical... *terroir*

Resilience towards climate change

Increased knowledge and skills

Higher, more balanced revenues for producers
Organic viticulture becomes a perfect basis for local development: Biodistretti (organic districts), a nice place to live, first of all.
All perfect in organic viticulture?

much room for improvement and for enlargement

as organic farming is knowledge intensive

Among others: Copper use

Still needed!
Evolution of Cu use (in kg Cu/ha in an organic vineyard - Trentino)

<table>
<thead>
<tr>
<th>year</th>
<th>n.° spraying</th>
<th>dose max (gr Cu/ha)</th>
<th>dose min (gr Cu/ha)</th>
<th>total kg Cu/ha/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>13</td>
<td>1200</td>
<td>500</td>
<td>11,0</td>
</tr>
<tr>
<td>2002</td>
<td>13</td>
<td>900</td>
<td>300</td>
<td>7,2</td>
</tr>
<tr>
<td>2004</td>
<td>12</td>
<td>1080</td>
<td>285</td>
<td>6,1</td>
</tr>
<tr>
<td>2005</td>
<td>12</td>
<td>500</td>
<td>150</td>
<td>3,7</td>
</tr>
<tr>
<td>2008</td>
<td>13</td>
<td>790</td>
<td>225</td>
<td>6,9</td>
</tr>
<tr>
<td>2010</td>
<td>8</td>
<td>560</td>
<td>70</td>
<td>2,2</td>
</tr>
<tr>
<td>2011</td>
<td>9</td>
<td>400</td>
<td>200</td>
<td>3,0</td>
</tr>
</tbody>
</table>

Data: E.Mescalchin, E.Mach Foundation
Available soil Cu and earthworms biomass (100kg/ha)

Data: E.Mescalchin, E.Mach Foundation
Organic wine is much more than pesticide-free. It is a key to give value to places, environments, human skills and resources, through the enhancement of diversity.

We need time and knowledge to further develop it.