Innovative Soil Management Practices (SMP) Assessment in Europe and China


This project has received funding from:

• Innovative Soil Management Practices (SMP) Assessment in Europe and China

Farming systems of the farms/plots where SMP’s were identified

China - Gongzhuling (14)
China - Zhifanggou (13)
China - Suining (12)
China - Quanzhou (11)
Estonia (10)
Poland (9)
Romania (8)
Hungary (7)
Spain (6)
Portugal (3)
France (2)
The Netherlands (1)

SMP’s identified by the Case Study Sites partners in Europe and China

• Farms using promising/innovative Soil Management practices were identified by Case Study Site project partners, covering 6 out 8 climatic regions in Europe and 3 out of 10 climatic regions in China.
• Identification/Selection favoured farmers using SMP’s in the most representative soil types and farming systems of the region.
• 155 plots/farms were identified: 115 in Europe and 40 in China.

SMP’s identified by the Case Study Sites partners in China

• Most farms/plots identified using SMP’s are located in Arable lands (60% in Europe and 90% in China), followed by Permanent (23% in Europe and 7% in China) and finally Pastures (17% in Europe and 3% in China).
• The three most common SMP’s identified in Europe were Manuring & Composting (14%), Min-till (14%) and Crop rotation (12%) and in China were Manuring & Composting (24%), Residue maintenance/Mulching (16%) and no-till (11%).

iSQAPER - Interactive Soil Quality Assessment in Europe and for Agricultural Productivity and Environmental Resilience

• iSQAPER project has started in May 2015 and has a duration of 5 years;
• 25 partners (including 14 case study sites in Europe and China) are part of the project;
• WP6 – Testing, evaluating and demonstrating measures to improve soil quality, crop production and yield stability;
• Identification of promising/innovative soil management practices in the most common farming systems and soil types in Europe and China.

Promising/Innovative soil management practices in Europe and China

Number of plots

10
20

promising/innovative practices / intensity level

1 - No-till
2 - Min-till
3 - Permanent soil cover / Maintaining the legume crop
4 - Organic crop
5 - Managing & composting
6 - Residue maintenance / Mulching
7 - Change of land use practices / Intensity level
8 - Change of land use practices / Intensity level
9 - Crop rotation / Control or change of species composition
10 - Cross-slope measure
11 - Measures against compaction
12 - Integrated pest and disease management
13 - Water diversion and drainage
14 - Irrigation management
15 - Major change in timing of activities
16 - Layout change according to natural and
17 - Area closure / rotational grazing
18 - Change of land use practices / intensity level
19 - Crop rotation / Control or change of
20 - Residue maintenance / Mulching
21 - Green manure / integrated soil fertility
22 - Irrigation management
23 - Cross-slope measure
24 - Residue maintenance/Mulching
25 - Change of land use practices / intensity level

the Netherlands (1)
China - Gongzhuling (14)
China - Zhifanggou (13)
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SMP’s distribution per location

Neutral

Green
Yellow
Orange
Red

10 - Cross-slope measure
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12 - Integrated pest and disease management
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