

# SUSTAINABLE FARMING PRACTICES TO MITIGATE SOIL THREATS

Project - [www.isqaper-project.eu](http://www.isqaper-project.eu)

Information - [www.isqaper-is.eu](http://www.isqaper-is.eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 635750



Ministry of Science and Technology Grant no. 2016YFE011270  
Chinese Academy of Sciences Grant no. 16146KYSB20150001



Swiss State Secretariat for Education, Research and Innovation Contract: 15.0170-1

1



## EROSION (water, wind, tillage)

Only through water erosion, nearly 1000 Mt of topsoil is lost in Europe every year (JRC, 2015)

2



## SOIL ORGANIC MATTER

Severe decline in Soil Organic Matter, due to its oxidation, can be observed throughout Europe

3



## BIODIVERSITY LOSS

Both above and below-ground biodiversity is severely impacted by intensive soil tillage.

4



## ECOSYSTEM SERVICES

Most Ecosystem Services are soil-mediated. Only healthy soils can provide these services satisfactorily.

A



## NATURAL SOIL CONDITIONS

Soils conditions are best in natural ecosystems, as they benefit from minimum soil disturbance, permanent cover and plant diversity.

B



## SUSTAINABLE FARMING PRACTICES

Sustainable farming means to mimic natural soil conditions through the application of those principles also known as Conservation Agriculture