

Soil carbon sequestration and agroforestry

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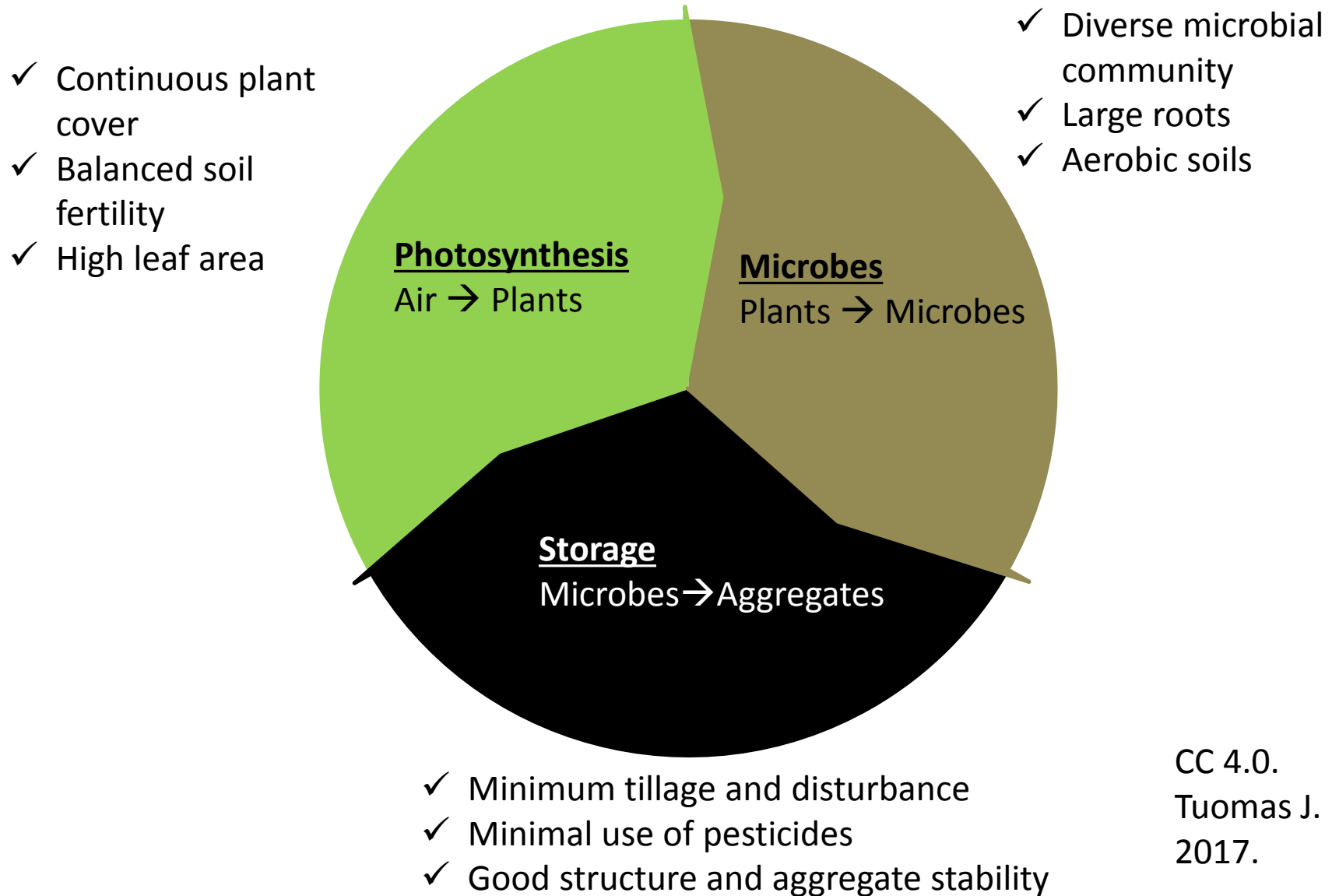
Kilpiä farm

Kilpiän tila

- auringonvalosta iloa ja hyötyä



Soil carbon management cycle



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Tuomas J. Mattila
2017.

Can you guess which fields are ours?



Sentinel Playground, Imagery 11.5.2018

4 PER 1000

CARBON SEQUESTRATION IN SOILS FOR FOOD SECURITY AND THE CLIMATE

Ministère de l'Agriculture, de l'Agroalimentaire et de la Forêt 

HOW CAN SOILS STORE MORE CARBON?

The more soil is covered, the richer it will be in organic material and therefore in carbon. Until now, the combat against global warming has largely focused on the protection and restoration of forests. In addition to forests, we must encourage more plant cover in all its forms.



Never leave soil bare and work it less, for example by using no-till methods



Introduce more intermediate crops, more row intercropping and more grass strips



Add to the hedges at field boundaries and develop agroforestry



Optimize pasture management – with longer grazing periods, for example



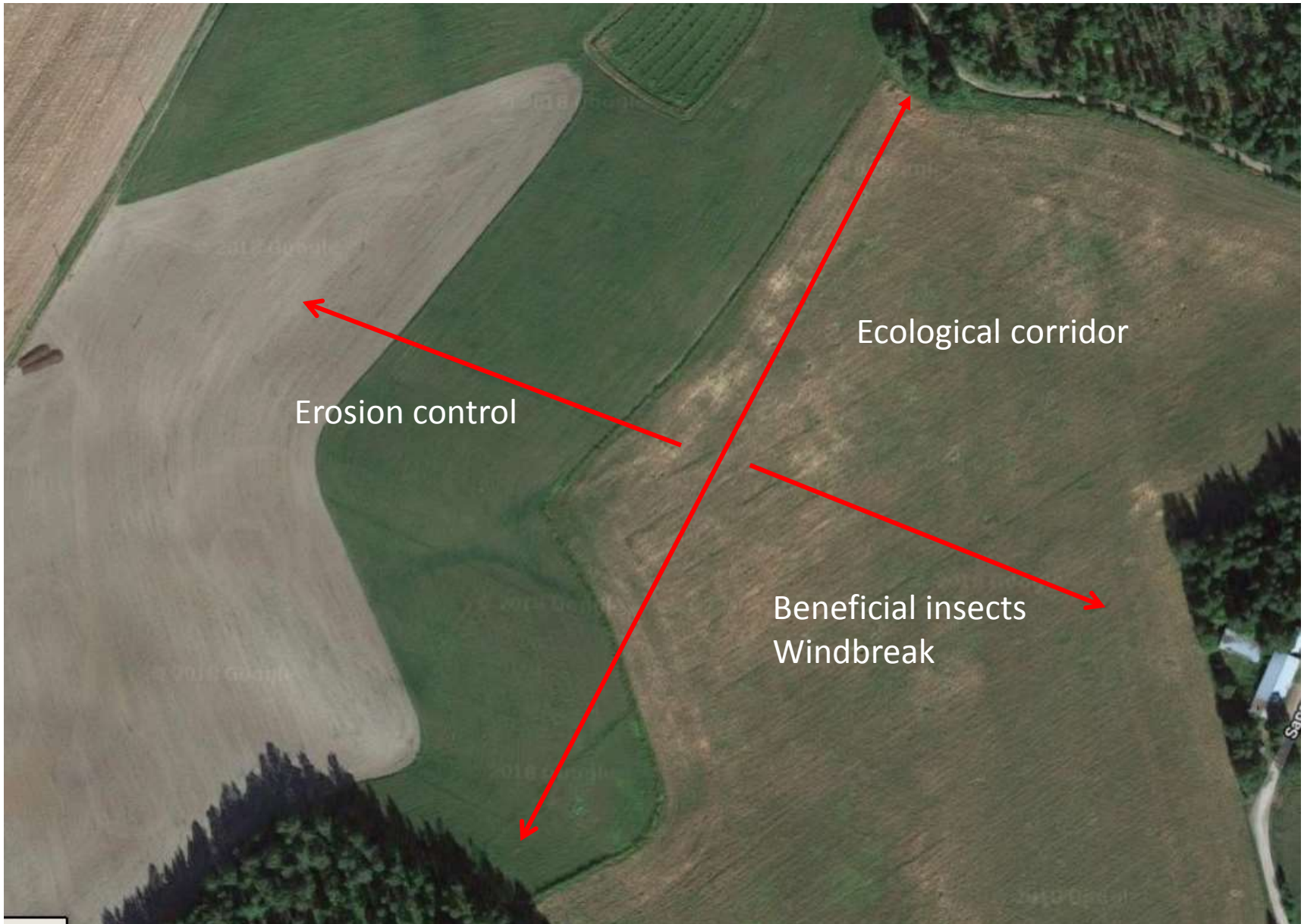
Restore land in poor condition e.g. the world's arid and semi-arid regions

<https://www.4p1000.org/>



These are virtually unknown in Finland, also heavy regulations against introducing trees to agricultural fields.

Field test since 2013



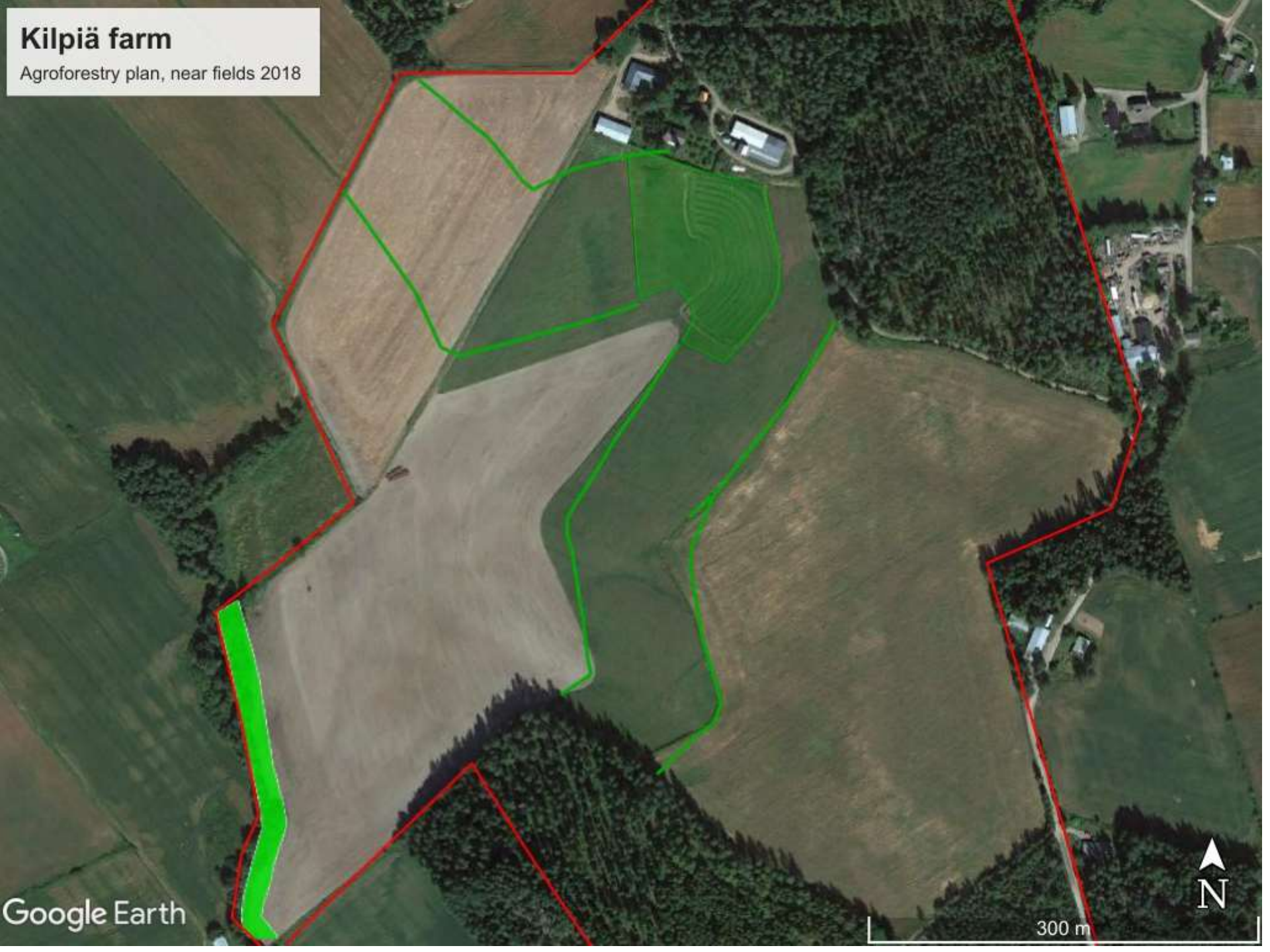
Erosion control

Ecological corridor

Beneficial insects
Windbreak

Kilpiä farm

Agroforestry plan, near fields 2018



Google Earth

300 m





What we need

- Markets
- Seedlings
- Knowhow
- Permission