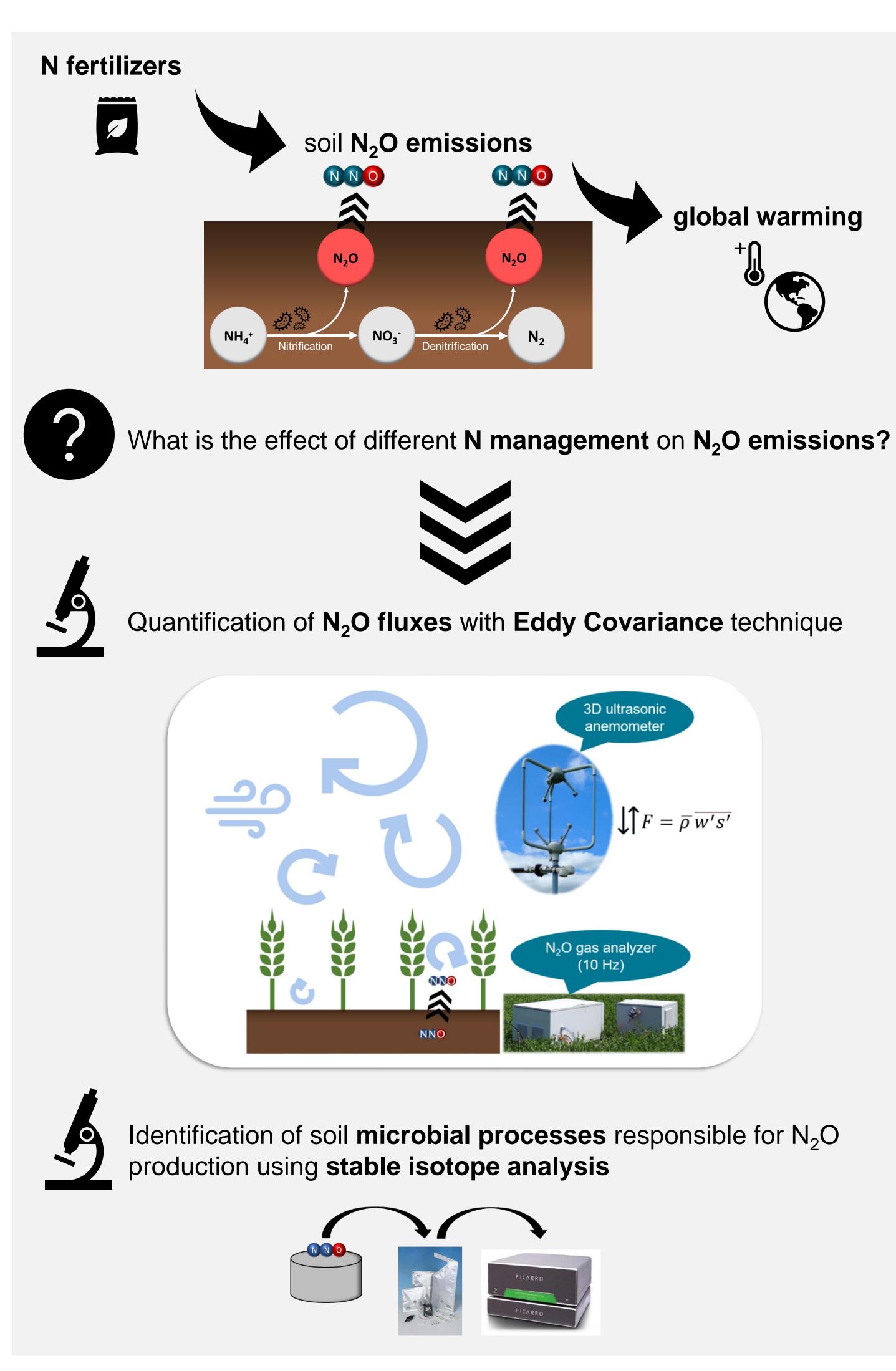


Understanding drivers and origins of nitrous oxide fluxes in agroecosystems

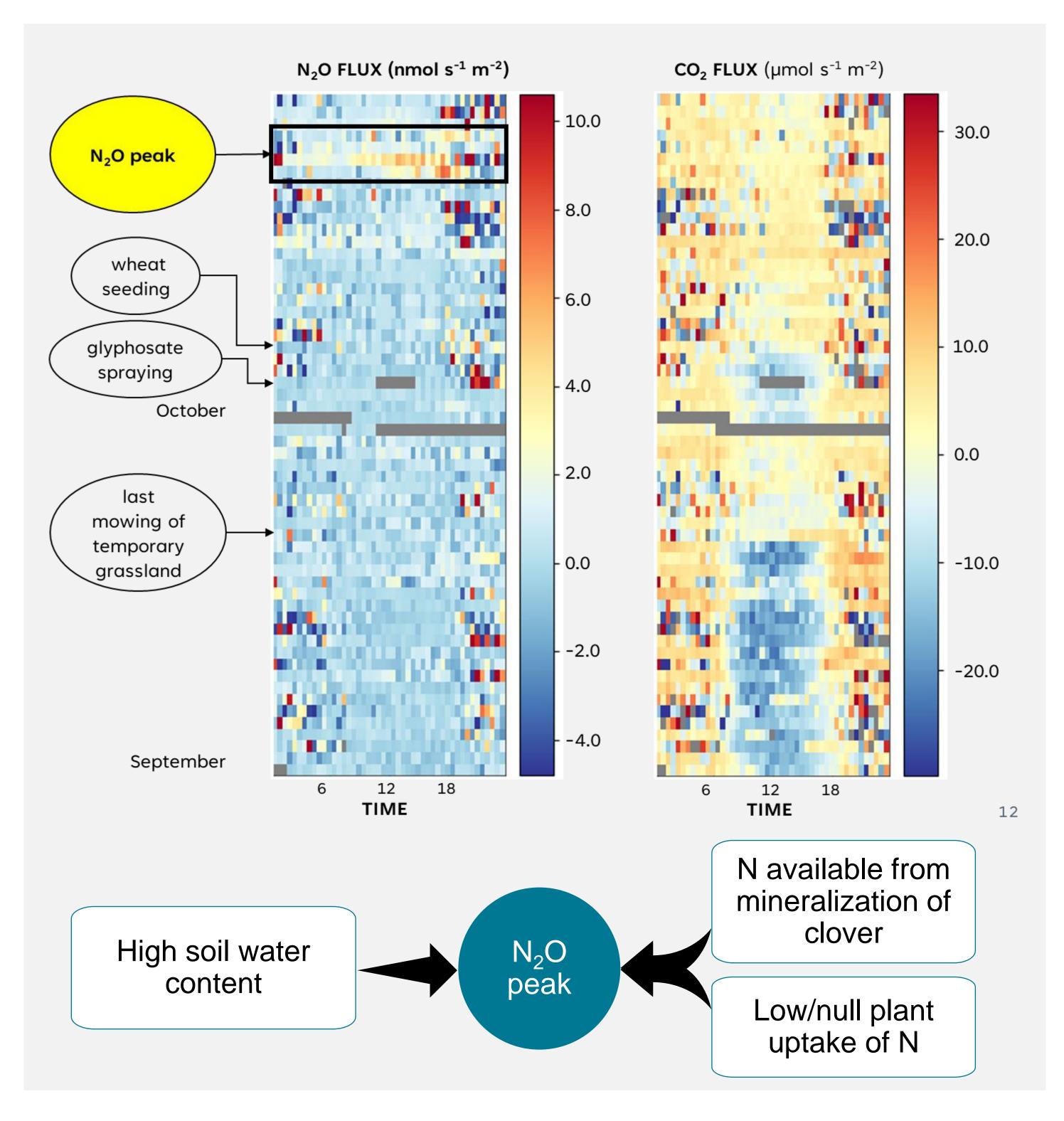
Fabio Turco¹, Joachim Mohn², Frank Liebisch³, Nina Buchmann¹

¹Grassland Sciences group, ETH Zurich; ²Laboratory for Air Pollution & Environmental Technology, EMPA; ³Water Protection and Substance Flows, Agroscope

1 Motivation & Method



2 Preliminary results



3 Expected outcomes

- Better understanding of the drivers and origins of N₂O emissions from croplands
- ii. Insights into the **effects of different N management** practices on N₂O emissions
- iii. Development of climate-smart recommendations with/for farmers to reduce the N₂O footprint of crop production

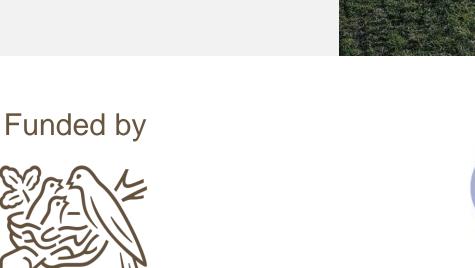
4 Contribution to Sustainable Food Systems



Climate change mitigation by reducing N₂O emissions from croplands



Sustainable intensification of agriculture by reducing N inputs and increasing N use efficiency



Nestle









