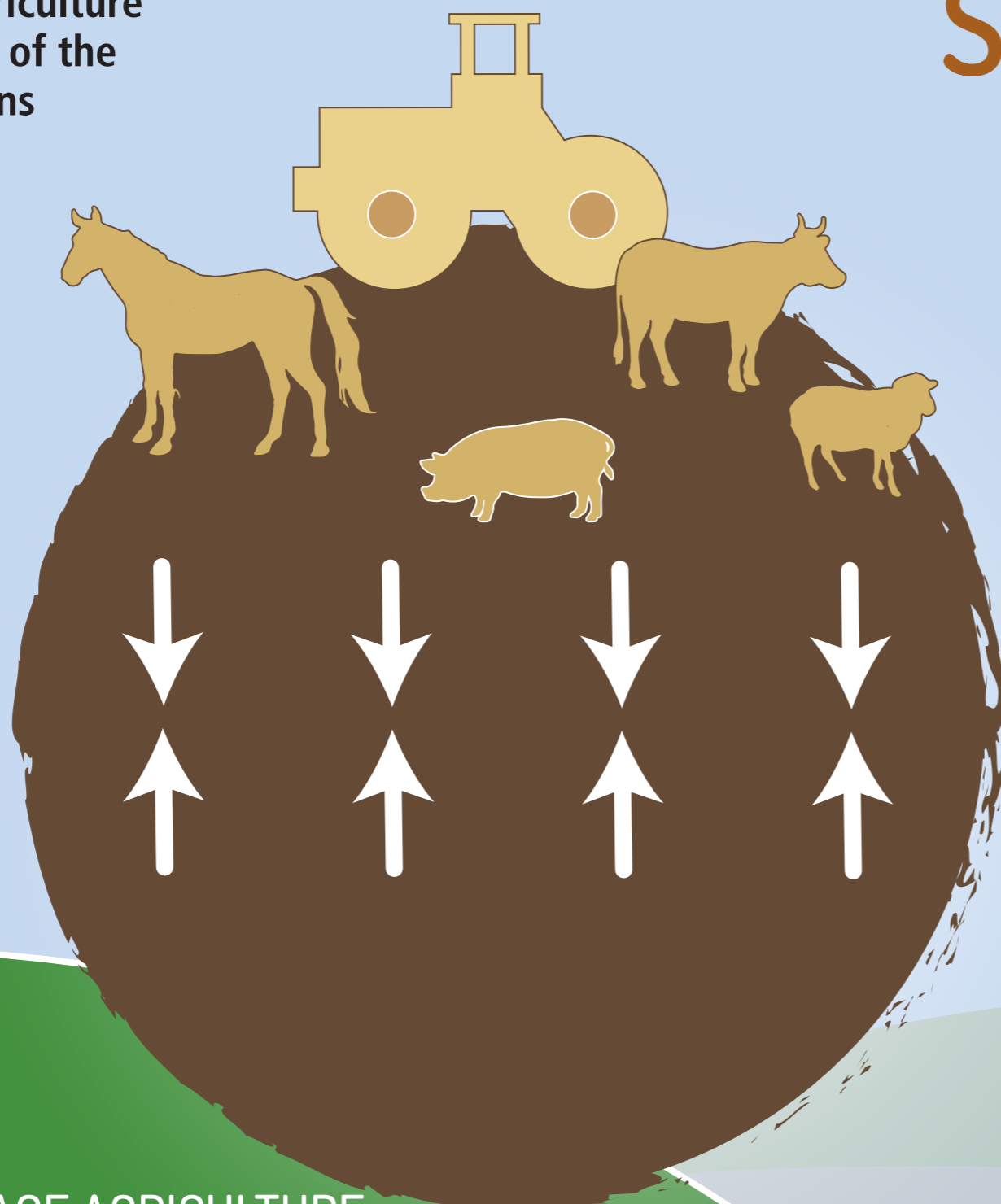




Food and Agriculture
Organization of the
United Nations

Soil compaction



Increase in density and a decline of macro-porosity in soil that impairs soil functions and impedes root penetration and water and gas exchange.

Soil compaction can reduce crop yields by as much as 60%.

Agricultural mismanagement (80%) and overgrazing (16%) are the two major causative factors of human induced soil compaction.



World
Soil Day
2016

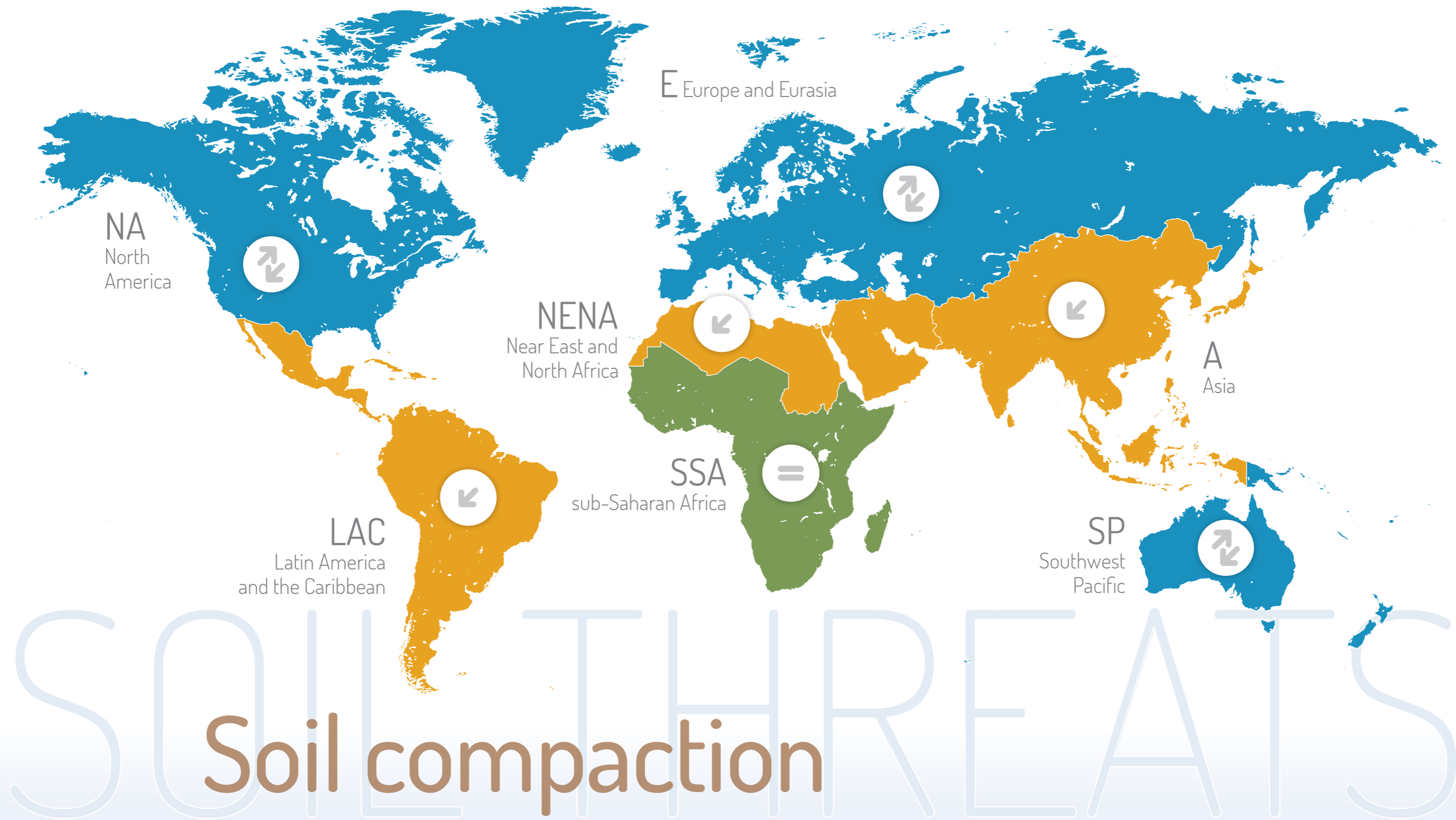
4% of the
global land area
is estimated
to be compacted



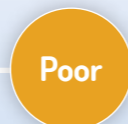
GLOBAL SOIL
PARTNERSHIP



MINIMUM-TILLAGE AGRICULTURE IS AMONG THE TOP OPTIONS TO REDUCE TILLAGE COSTS, CONSERVE SOIL AND WATER, INCREASE SOIL ORGANIC CARBON POOLS, AND REDUCE NET CO₂ EMISSIONS



Condition



Trend



Improving

Deteriorating

Variable

Stable