# Soils and Pulses | the symbiosis

2016 INTERNATIONAL YEAR OF PULSES

**Soils provide multiple ecosystem services**

**Pulses contribute to soil health**

$N_2$

Biological $N_2$ fixation

**Increases Soil Organic Matter content**

**Improves:**
- **Soil structure**
- **Soil aggregate stability**
- **Soil porosity**
- **Water holding capacity**

**Increases Soil Organic Carbon stocks**

Litter fall

Root system

**Maintain and enhance soil biodiversity**

**Soil resistance and resilience against disturbance and stress**

**Root exudates stimulate microbial activity**

P solubilization

**Organic/available N**

**Increases soil fertility**

**In symbiosis, soils and pulses contribute to food security and nutrition, climate change adaptation/mitigation, carbon sequestration and to achieve the Sustainable Development Goals**

Food and Agriculture Organization of the United Nations

2015 International Year of Soils

World Soil Day

GLOBAL SOIL PARTNERSHIP

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