Sustainable Agriculture

Competition for land
...for human food, animal food and biofuels

Water Stress
3.9 billion people in river basins face severe water stress by 2050

Agriculture water withdrawal (as a % of total renewable water resources)
- Egypt 114.9%
- Saudi Arabia 867.9%
- UAE 2,208%

Top 3 / Bottom 3 Performers
Sustainable agriculture

Top Performers
1. Germany
2. Canada
3. Japan

Bottom Performers
23. Egypt
24. United Arab Emirates
25. India

Responses
- Conservation of arable land
- Reduced use of fertilisers & pesticides
- Efficiency in water use
- Investments in agricultural knowledge, science & technology

Technology Frontiers
- Satellites
- Big data
- GPS-enabled tractors
- Sensors
- Robots
- Genetic modification
- Drones
- Vertical farming
- Synthetic biology

Data from the Food Sustainability Index and index sources

Developed by