



Smart irrigation solutions for healthy soils and sustainable agriculture

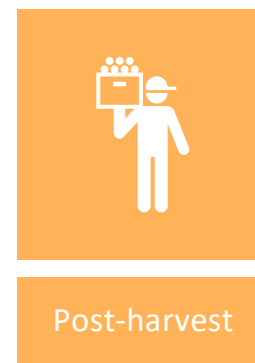
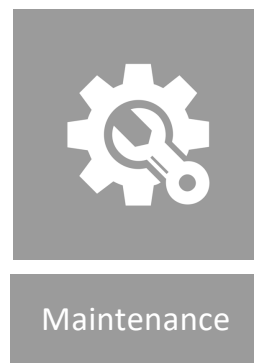
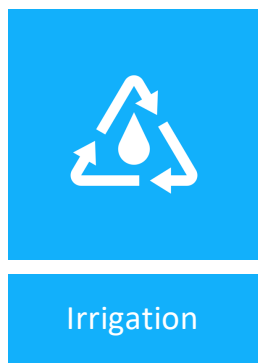
Presentation by Tijms Trading International,
SAREP Conference, October 2023

Tijms
B.V.

Trading International



Complete solutions for smart agriculture worldwide, from small scale to mega-scale farms



Few words about us:



- Family-owned business, 3rd generation
- Founded in 1948
- Home to multiple innovations in irrigation, water and renewable energy
- Projects in Europe, Africa and Latin America
- Team has experience in 30 African countries









Pressure compensating and anti-syphon drip irrigation



Integrated sowing and drip tape application machine



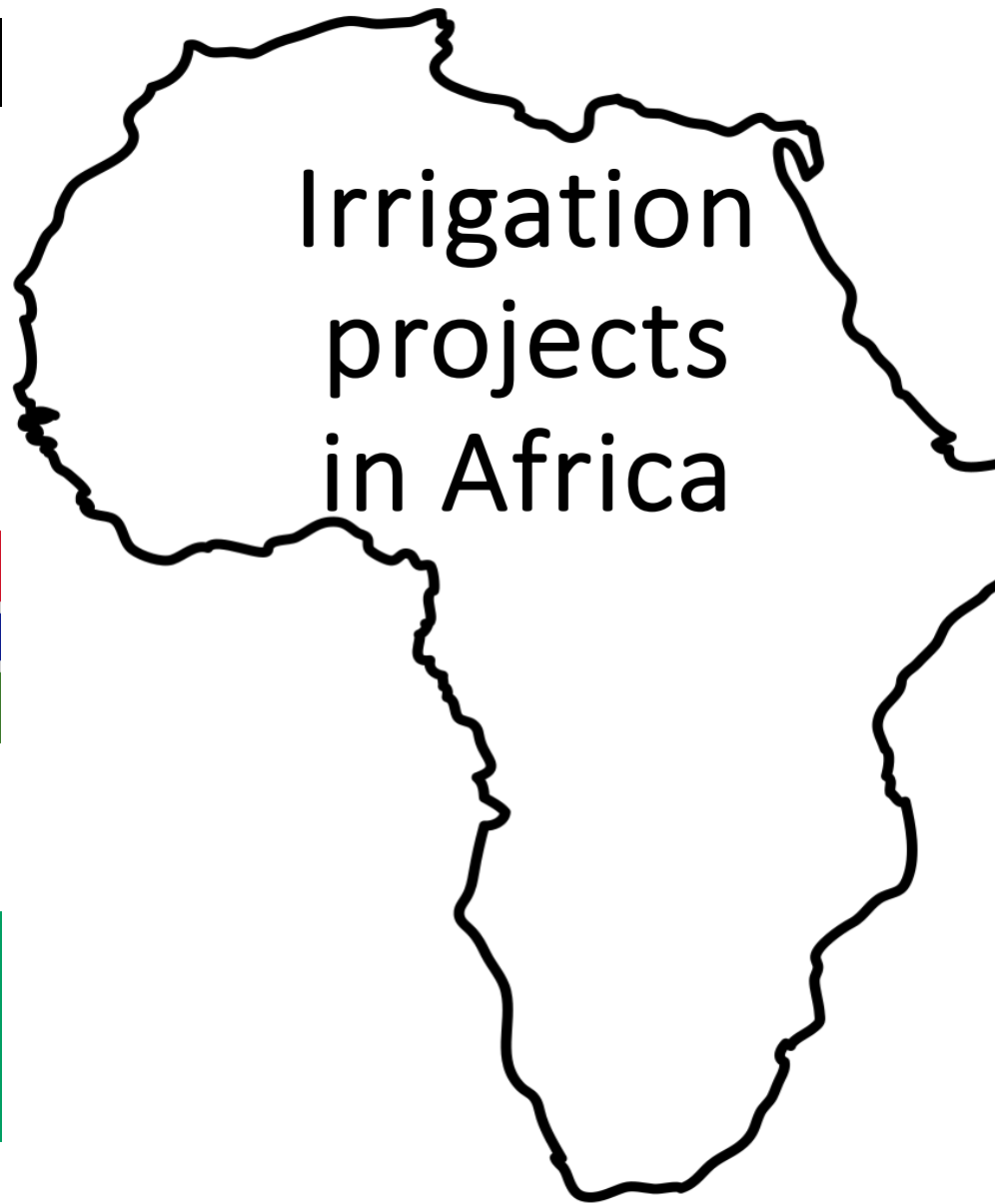
Senegal



The Gambia



Côte d'Ivoire



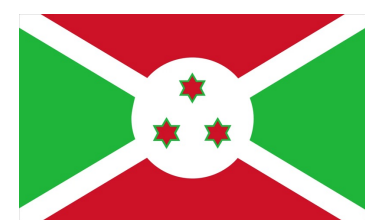
Ethiopia



Rwanda



Burundi



Project in The Gambia

- Implementation of the *Accessible Smart Farming*TM concept in 45 communities:
 - Soil improvement
 - Solar-powered ZOBAM drip irrigation
 - Integrated farming (rational fertilization, integrated pest management, investing in biodiversity)
 - Knowledge transfer
 - Increased yields, regenerating business model
- Solar powered cold storage
- Tractor maintenance & repair facility



Projects Surinam 2023:

- Annual crop farming:
 - Soil improvement
 - Installing solar-powered ZOBAM drip irrigation
 - Integrated farming (rational fertilization, integrated pest management, biodiversity)
 - Knowledge transfer
 - Increased yields, regenerating business model
- Perennial crop farming:
 - Drip irrigation with hard tube
- Demonstration of polymer desalinator



Example of a large scale project:

Establishment of 160 ha blueberry farm,
embedding a 220 ha solarpark:

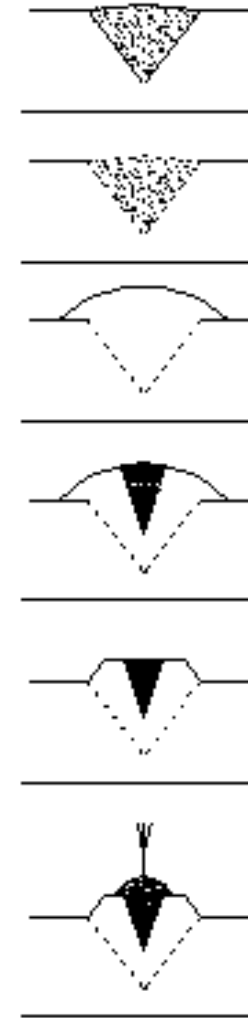
- Soil preparation.
- Drip irrigation system
(2 drip hoses per row).
- Planting Blueberry plants
- Construction works:
 - Warehouse 20 x36
 - Cold stores and office space



Irrigation is one element of an integrated approach to farming

- Soil:
 - Soil improvement
 - Soil preparation
- Planting:
 - Planting method
 - Planting scheme
- Mechanization:
 - Pruning
 - Crop protection
 - Harvesting
- Water:
 - Availability
 - Quality
- Climate:
 - Rainfall
 - Droughts and floods
- Exploitation:
 - Commercial
 - Smallholder

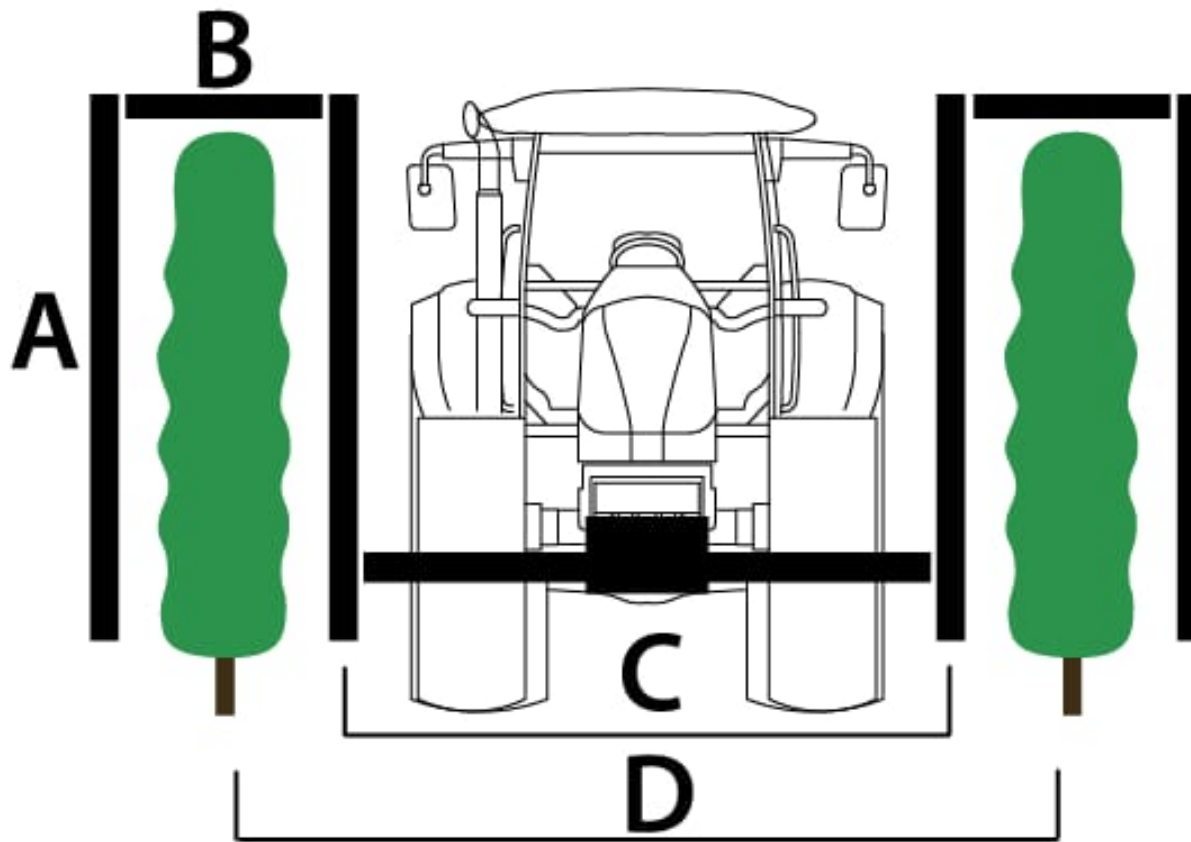
Options for soil preparation: ridges or not?



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Mechanization options dictate row distance



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Mechanization solutions for harvesting



Tractors tailored to all jobs to be accomplished



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Contribution to sustainable development



With the project we contribute to 13 of the 17 UN SDGs: water management, jobs, renewable energy, food security, biodiversity and environmental care.

