

DRIP
IRRIGATION
& fertigation



IRRI·al·tal
irrigation & water systems

 www.irri-atal.com

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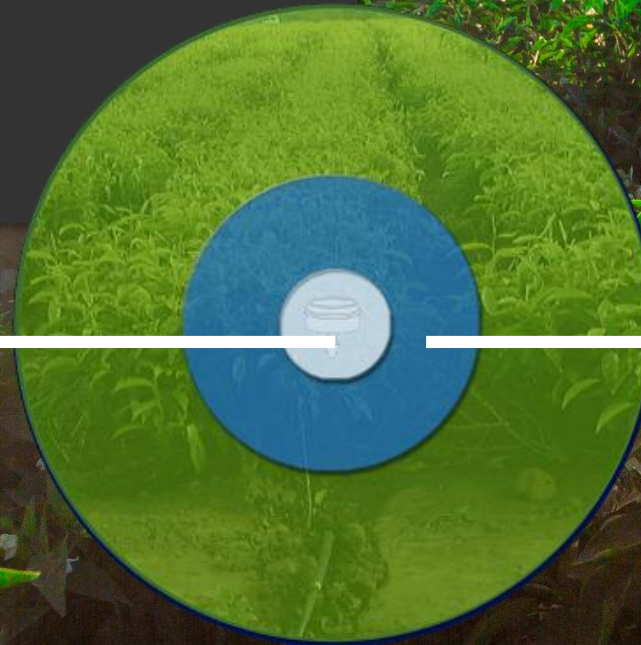
 **Kibbutz Ramat David**
3658700, Israel

IRRIGATION

AROUND THE WORLD

18% of irrigated land
around the world =
40% Food!!

6 mil. ha -
0.4%



275 mil. ha -
18%

** Water and Food for Ending Poverty and Hunger. International Commission on Irrigation and Drainage (ICID). March 2009.

GLOBAL IRRIGATION



2750000000

HECTARES OF IRRIGATED LAND AROUND THE WORLD



40

% OF GLOBAL FOOD PRODUCTION



3460000000

HA OF IRRIGATED CROPS HARVESTED WORLDWIDE

FAO. 2016. AQUASTAT website



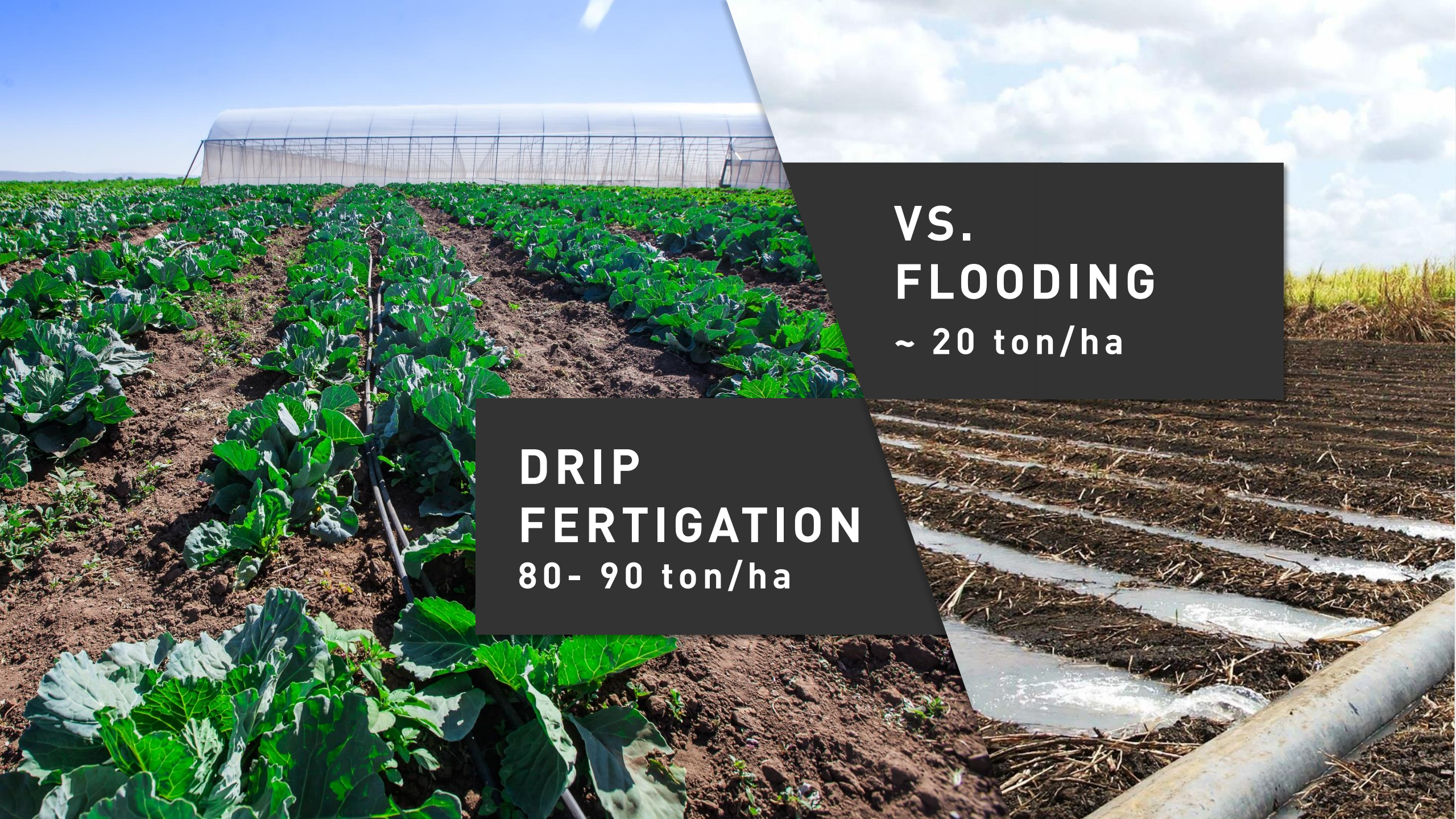
Irrigation of
complex
topography

Suitable for
any soil type

Irrigation
with saline
water/
wastewater

Irrigation
under harsh
climate
conditions

Drip Irrigation ADVANTAGES



VS.
FLOODING
~ 20 ton/ha

DRIP
FERTIGATION
80- 90 ton/ha

DRIP FERTIGATION

Suitable for many types of crops:

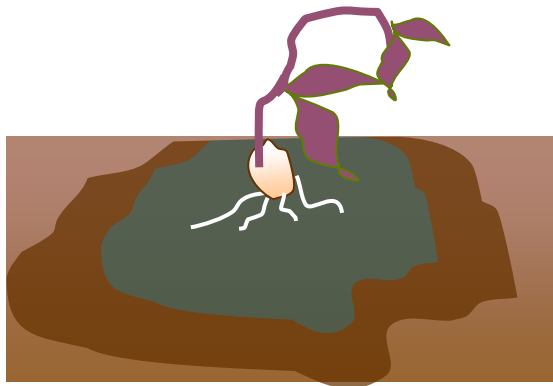
- ✓ Apple orchards
- ✓ Vineyards
- ✓ Palm trees
- ✓ Onion field
- ✓ Tomato field
- ✓ Corn field
- ✓ Watermelon field
- ✓ & many more



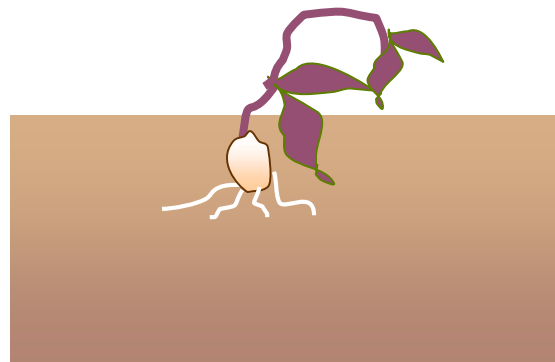
DRIP FERTIGATION

Advantages

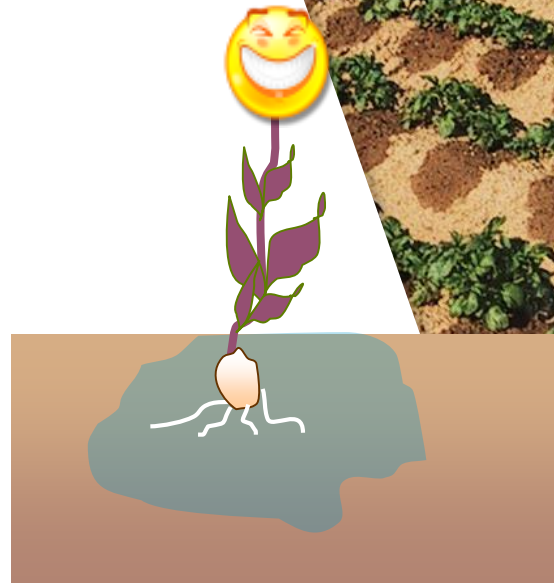
- ✓ Accurate & cost-effective
- ✓ Optimal conditions in the root zone
- ✓ Maximum plant nutrition uptake
- ✓ Prevention of weeds & nutrient leaching
- ✓ High efficiency (>95%)



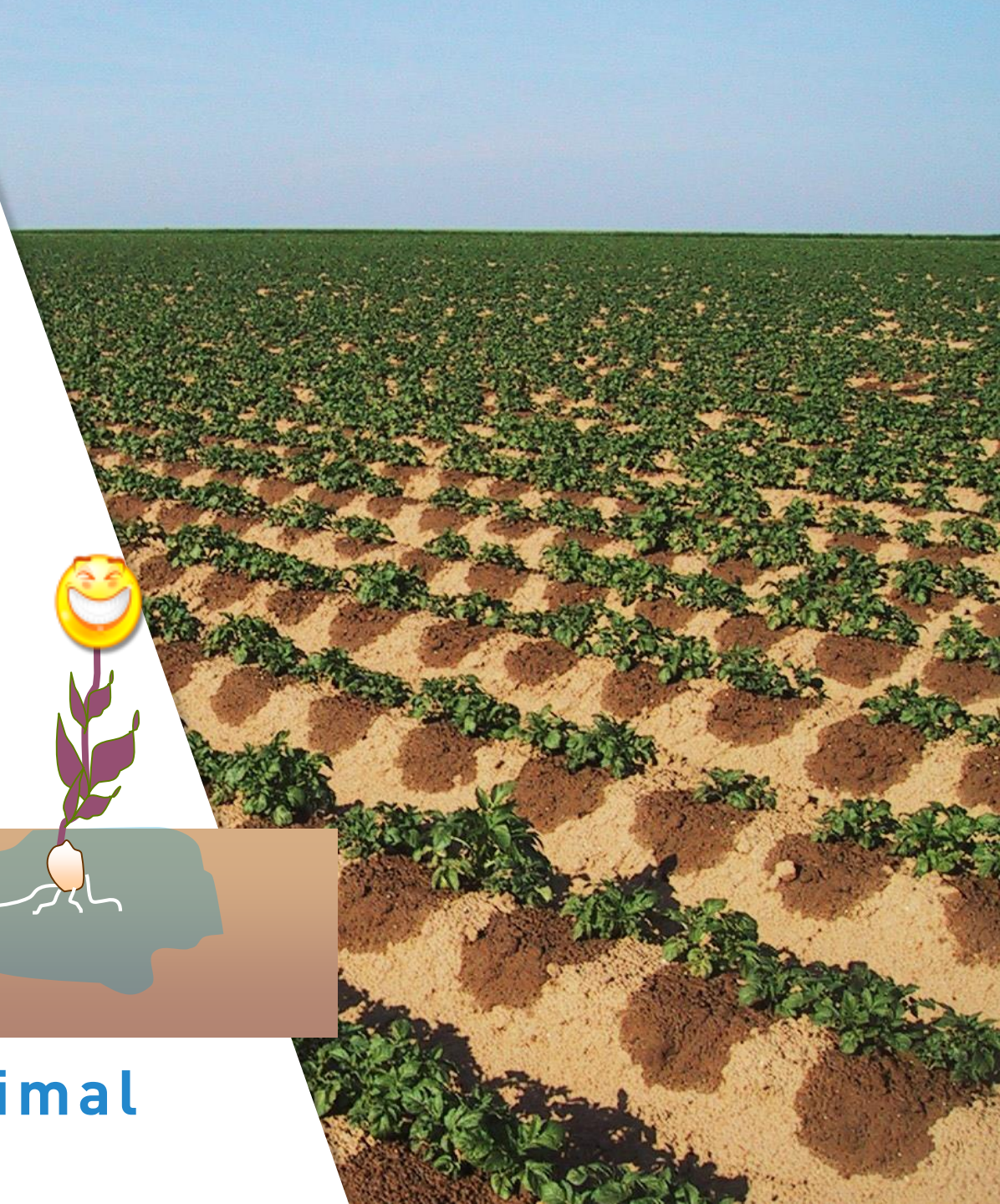
Excess



Deficit



Optimal



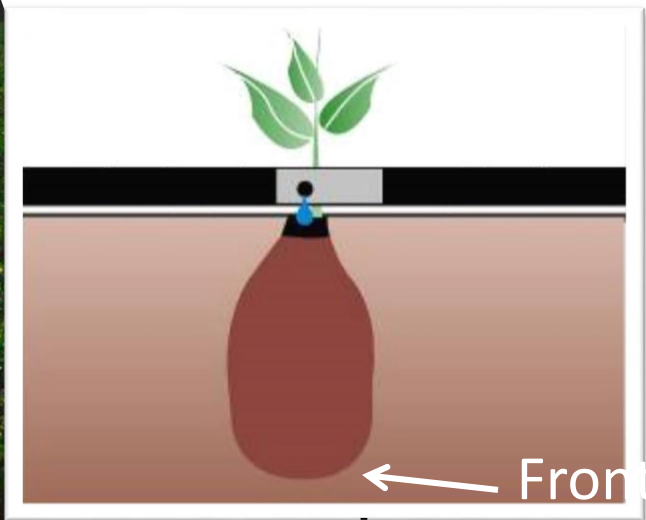


DRIP FERTIGATION Advantages

- ✓ **Accurate & cost-effective**
- ✓ **Optimal conditions in the root zone**
- ✓ **Maximum plant nutrition uptake**
- ✓ **Prevention of weeds & nutrient leaching**
- ✓ **High efficiency (>95%)**

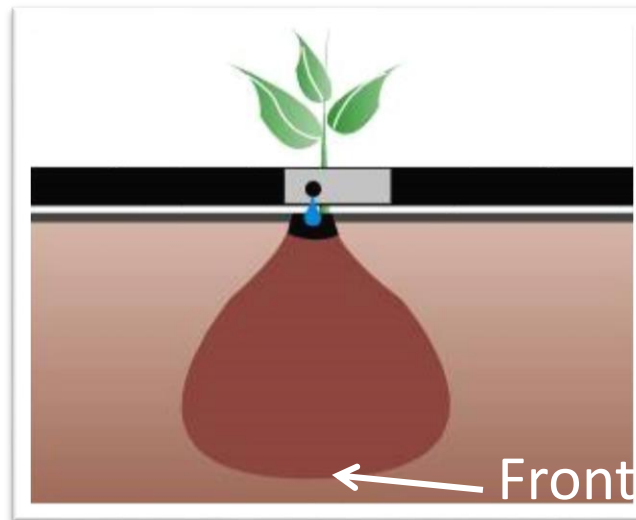
Water & fertilizer profile VS. soil type

Light



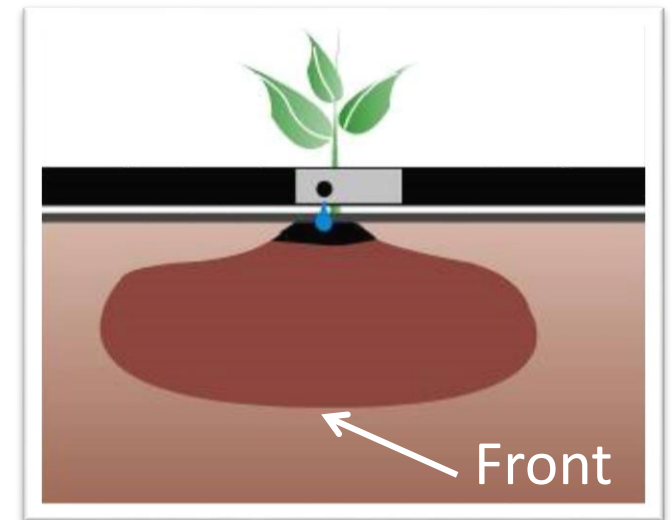
Wetting diameter
~ 0.30 m

Medium



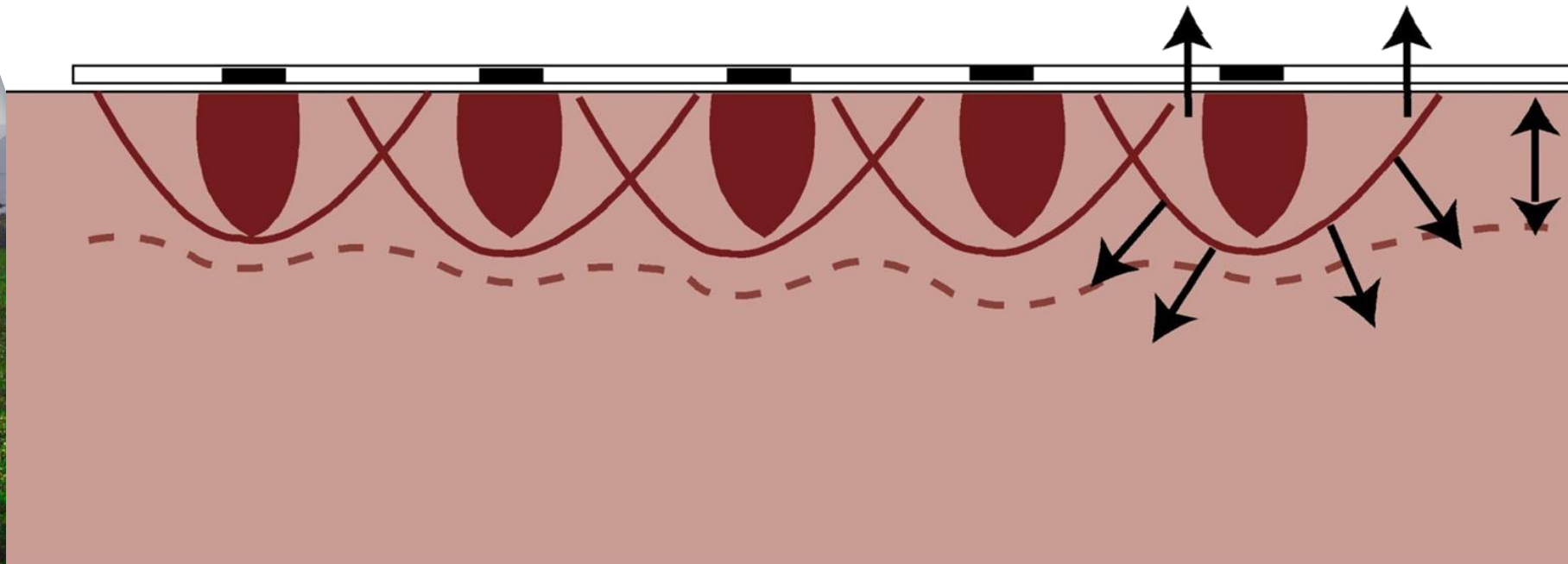
Wetting diameter
~ 1.0 m

Heavy



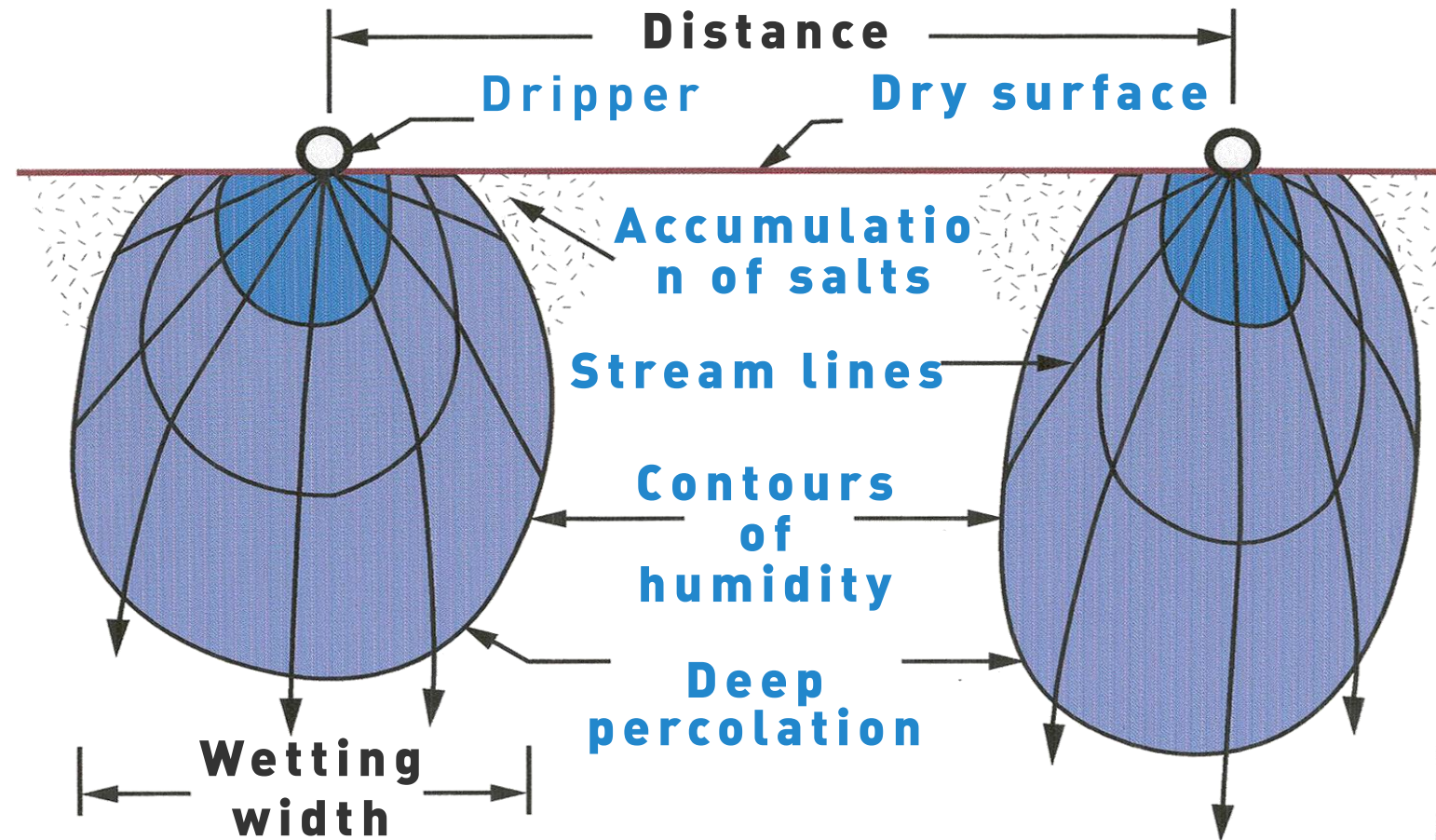
Wetting diameter
~ 1.5 m

Water profile below dripline



-  Saturated zone
-  Wetting limit of a single dripper
-  Wetting limit of the dripline

Accumulation of salts below the dripper





Types of DRIPLINES

- ◆ Diameter - 16 - 23 mm
- ◆ Wall thickness - higher/
lower than 0.65 mm
- ◆ Shape - cylindrical/ flat
- ◆ Flow rate - low/ high
- ◆ Pressure compensation -
PC/ Non PC

RANGE OF DRIP PRODUCTS

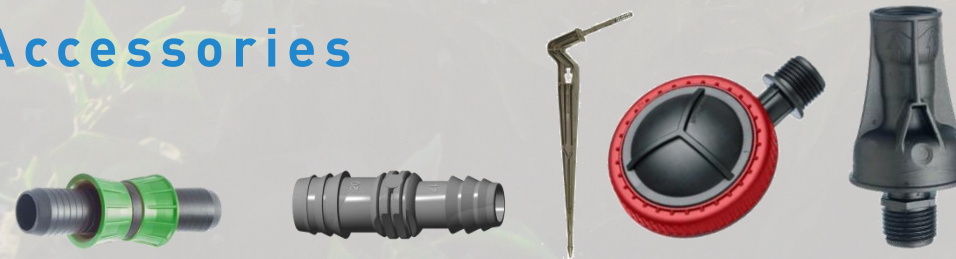
Driplines



Button drippers



Accessories



PRESSURE COMPENSATION

Non-compensated drippers (Non PC)

- Flow rate is dependent of pressure (varies). Flat surface or moderated slope

Compensated drippers (PC)

- Flow rate is constant (within pressure range)
- Silicone element
- Complex topography and/ or long laterals



OUR GOAL

is to help you in:

- ✓ **Improving yields & produce quality**
- ✓ **Establishing sustainable agriculture**
- ✓ **Reaching maximum profitability**



THANK YOU

VISIT US AT

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