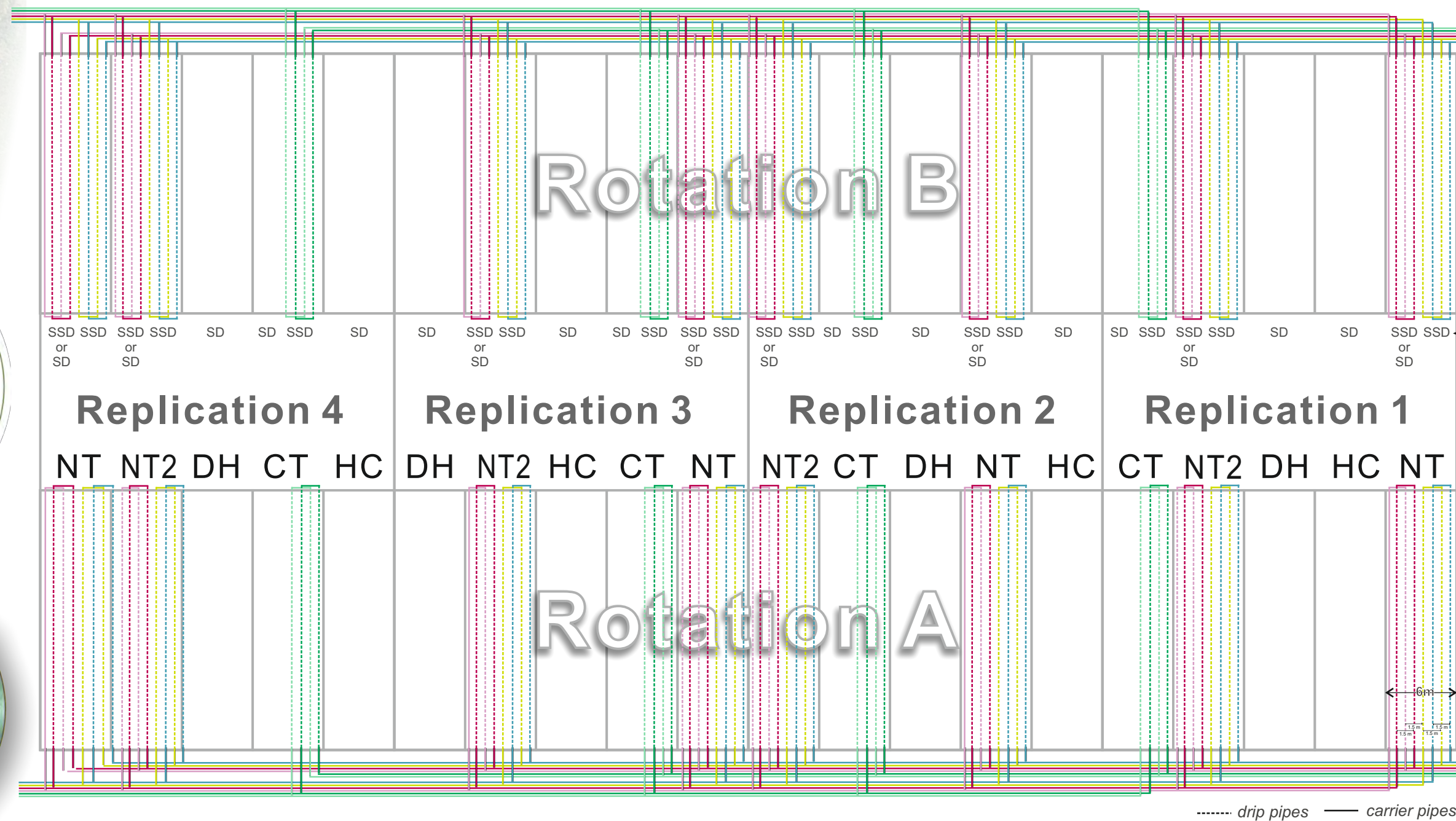


THE SUSTILL + WaterMellon (established: 2026)



Aim: To combine sustainable soil management practices, such as no-tillage systems, with efficient water-use technologies, including smart and subsurface drip irrigation, in order to support the transition toward more sustainable and resilient agricultural systems under Mediterranean conditions.

EXPERIMENT LAYOUT

Two parcels: (Rotation A, Rotation B)

Five tillage treatments (main plots CT;HC;DH;NT;NT2)

Two irrigation treatments (sub-plots)

1. **SD** = Surface drip irrigation
 2. **SSD** = Sub-surface drip irrigation*
- * only in CT, NT and NT2, ability for alternative configurations

Network 1a: NT (1.50m)

Network 1b: NT(+0.75m)

Network 2a: NT (1.50m)

Network 2b: NT(+0.75m)

Network 3a: CT (1.50m)

Network 3b: CT(±0.75m)

pipe depth 12 cm

pipe depth 40 cm

20 mm drip lines with pressure-compensating drippers spaced at 0.5 m (2 L/h discharge).

