

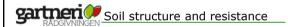
- High level of traffical operations in vegetable production
- High demand on uniform quality, nutrient uptake, and growth
- High need for accuracy for sowing, transplanting, weeding and other operations
- Demand for flexibility in days in the field
 Olimetic shapes
 - Climatic changes

 Mechanical sub soil tillage or
- Mechanical sub soil tillage can not recreate original soil structure
- · Crop specific machinery with different size



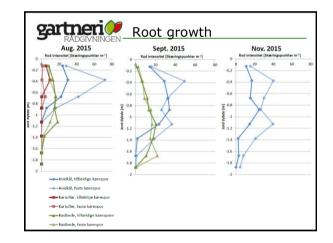
- · Higher yields
- · More uniform and better quality products
- Higher water infiltration and water holding capacity
- · Better soil structure and biological activity
- · Reduction in clod load in root crops
- Greater spatial accuracy
- · Opportunities for more plantes pr.hectare
- · Tendency to a lower weed level
- · Deeper and more abundant roots
- · More working days in the field





4-years project Wageningen University 2002-2005 Results in pea, spinach and onions on clay soil

	depth	traditional	CTF
Vol% air at pF2	2,5-7,5	16 (10-21)	20 (14-26)
	10-15	10 (6-14)	13 (10-17)
Cone index (Mpa)	3-8	1,3	1,1
	10-15	1,5	1,2



gartneri CTF - challenges

- Practically all machinery needs adjustment
 - · Same track width for all machines
- Harvesting celeriac, red beets, leeks, and many other crops are single row-harvesters – SCTF (Seasonal Controlled Traffic Farming)
- Potato harvester needs one wheel in the bed for stability







