



conventional construction for sidewalks in Stockholm a completely sealed surface where no water can be infiltrated or gas exchange can take place

**Concrete tile** 

Sand

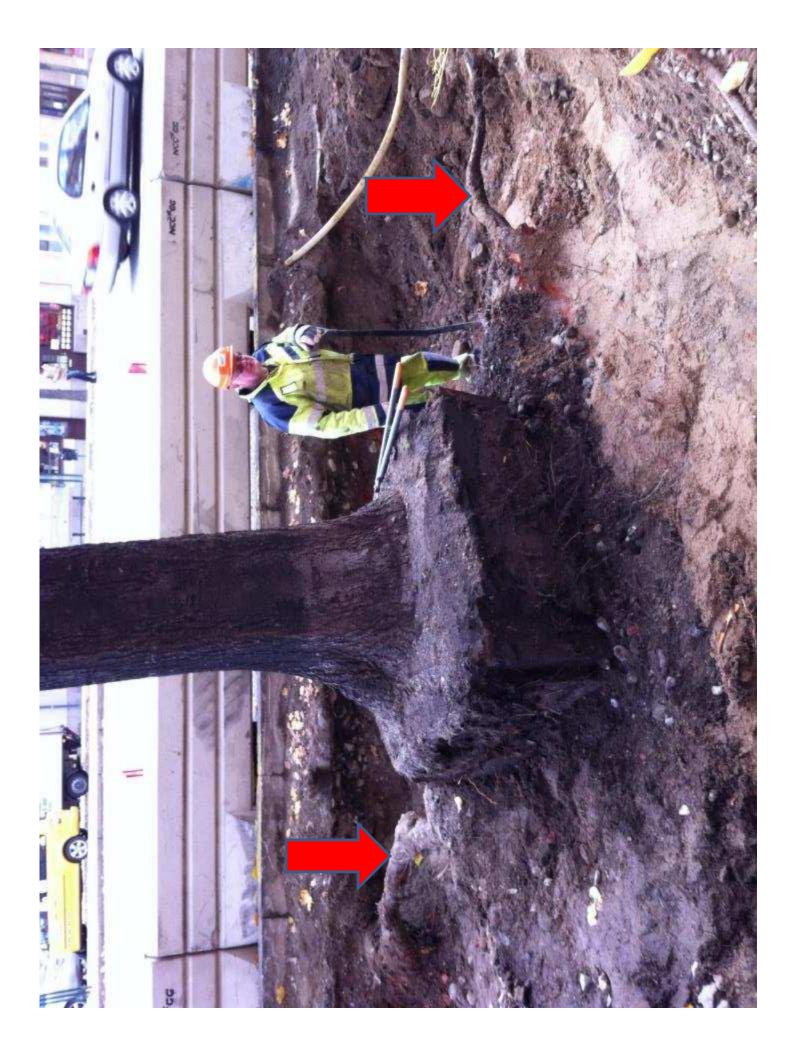
Asphalt

Roadbed crushed granite fraction 0-63 compacted



## Compaction of soil and dense surface layers the main reason that trees do not grow in urban environments

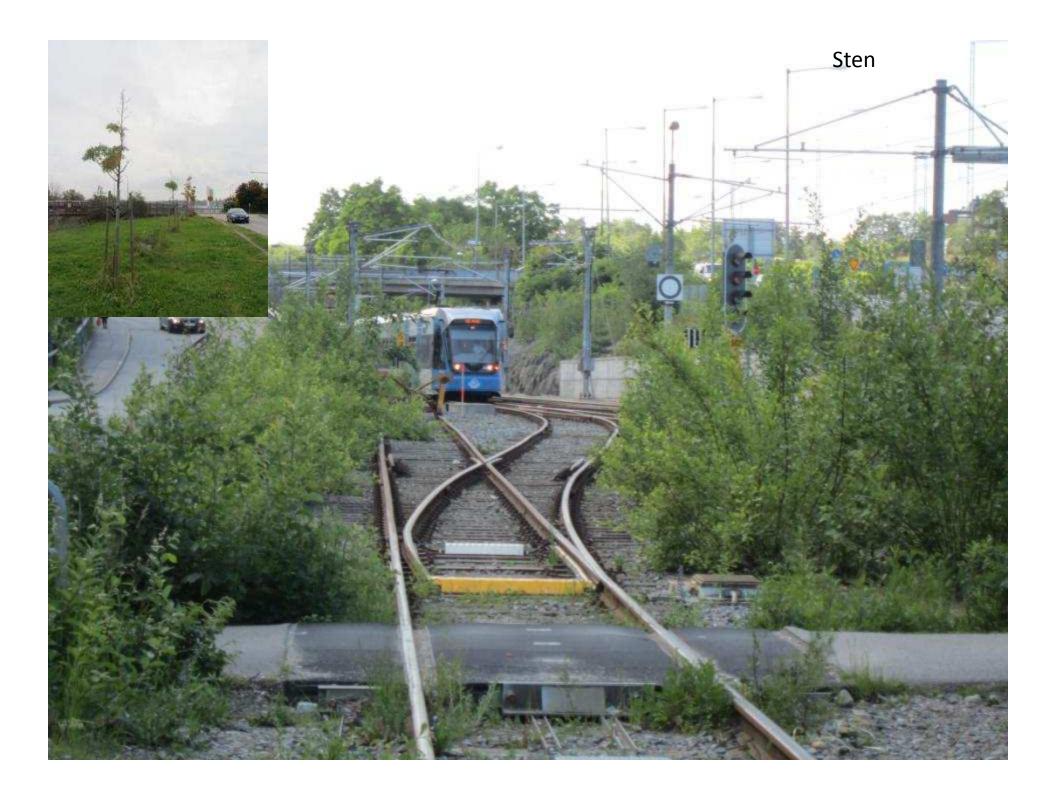






## Toffelbacken





## Using a rock based growing substrate as a benefit for both for trees and stormwater management



## How to create good growing conditions and taking care of the rain water

- 1. Pavement
- 2. Geotextile
- **3**. Layer of crushed rock for infiltration of surface water and airing of the soil
- 4. Structure of granite stones the space between is filled with soil
- 5. Terrace
- 6. Plant box of conreate
- 7. Tree
- 8. Planting soil
- 9. Catchment chamber for infiltration of surface water and airing the structural soil

6

Inlets for Stormwater Carbon dioxide out

8

1.

2.

3.

4.







Granit 90-150mm Each layer 300 mm compacted for stability

Recycled concrete used as a part of the structural soil instead of granite

