Urban Tree Design for a Sustainable Climate

SuDS tree pits

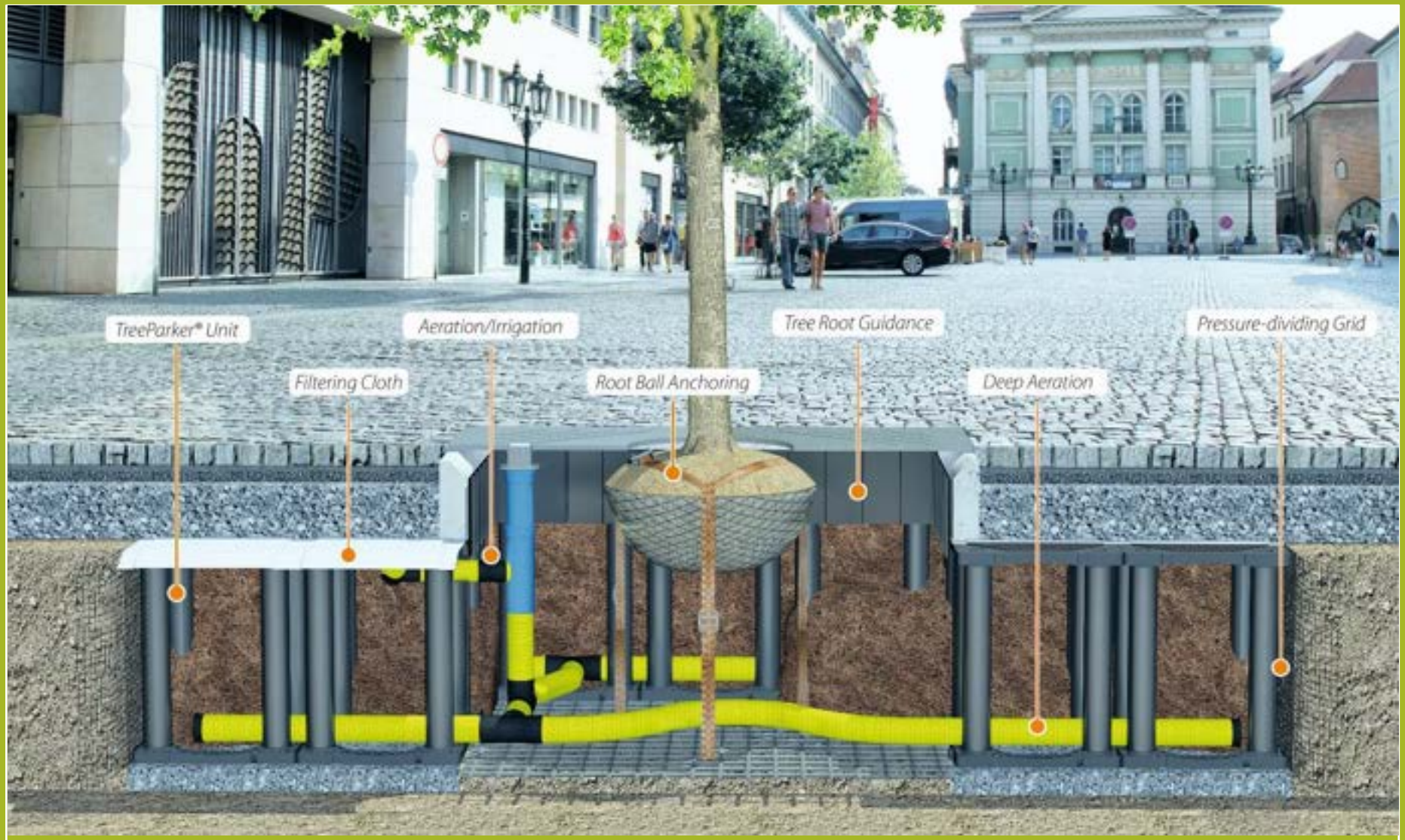
green-tech SPECIFIER

why trees?

“Imagine if trees gave off WiFi signals, we would be planting so many trees and we'd probably save the planet too. Too bad they only produce the oxygen we breathe…”

The value of trees
Living near green urban areas improves physical and mental health.
Strategically placing trees in cities can cool the air by up to 12 degrees.
Trees capture rainwater and reduce runoff, which helps prevent soil erosion and flooding.
A large, mature tree can absorb 150 kg of CO2 per year under optimal conditions.
Many trees produce fruits, nuts, and seeds that serve as a source of food for humans and animals.
Trees reduce noise pollution in urban environments.
Trees play a crucial role in enhancing biodiversity.
Trees are excellent filters for urban pollutants and particulate matter.
Trees save energy in the built environment.
Trees increase property values and make urban areas more attractive.
treebuilders.eu

Damaging
Detrimental
Costly


TreeParker® Unit
Filtering Cloth
Aeration/Irrigation
Root Ball Anchoring
Tree Root Guidance
Deep Aeration
Pressure-dividing Grid

TREEPARKER

TreeParker

Urban Tree Planting & Water Management Cell System

Dimensions: 605mm x 605mm x
400 / 600 / 800 / 1000 / 1200 / 1500mm

TreeParker Recycled 100%

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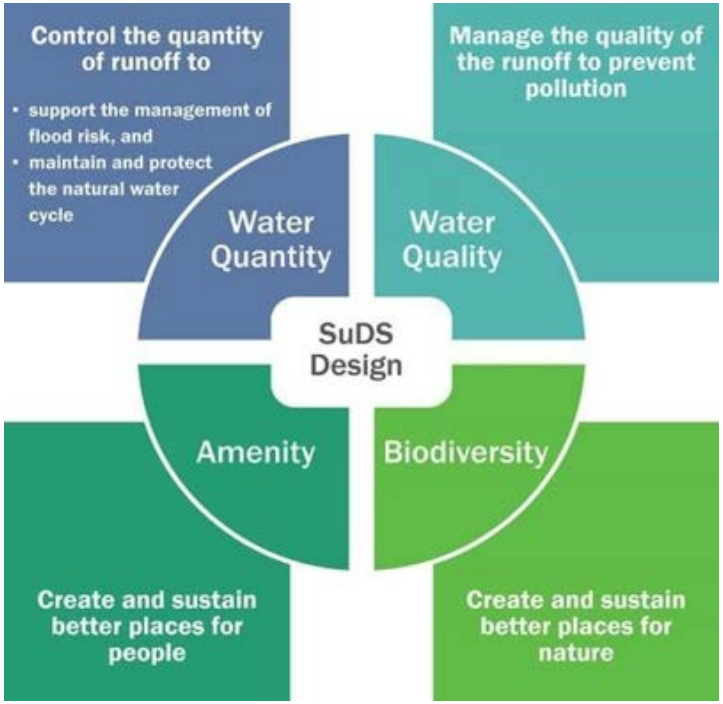
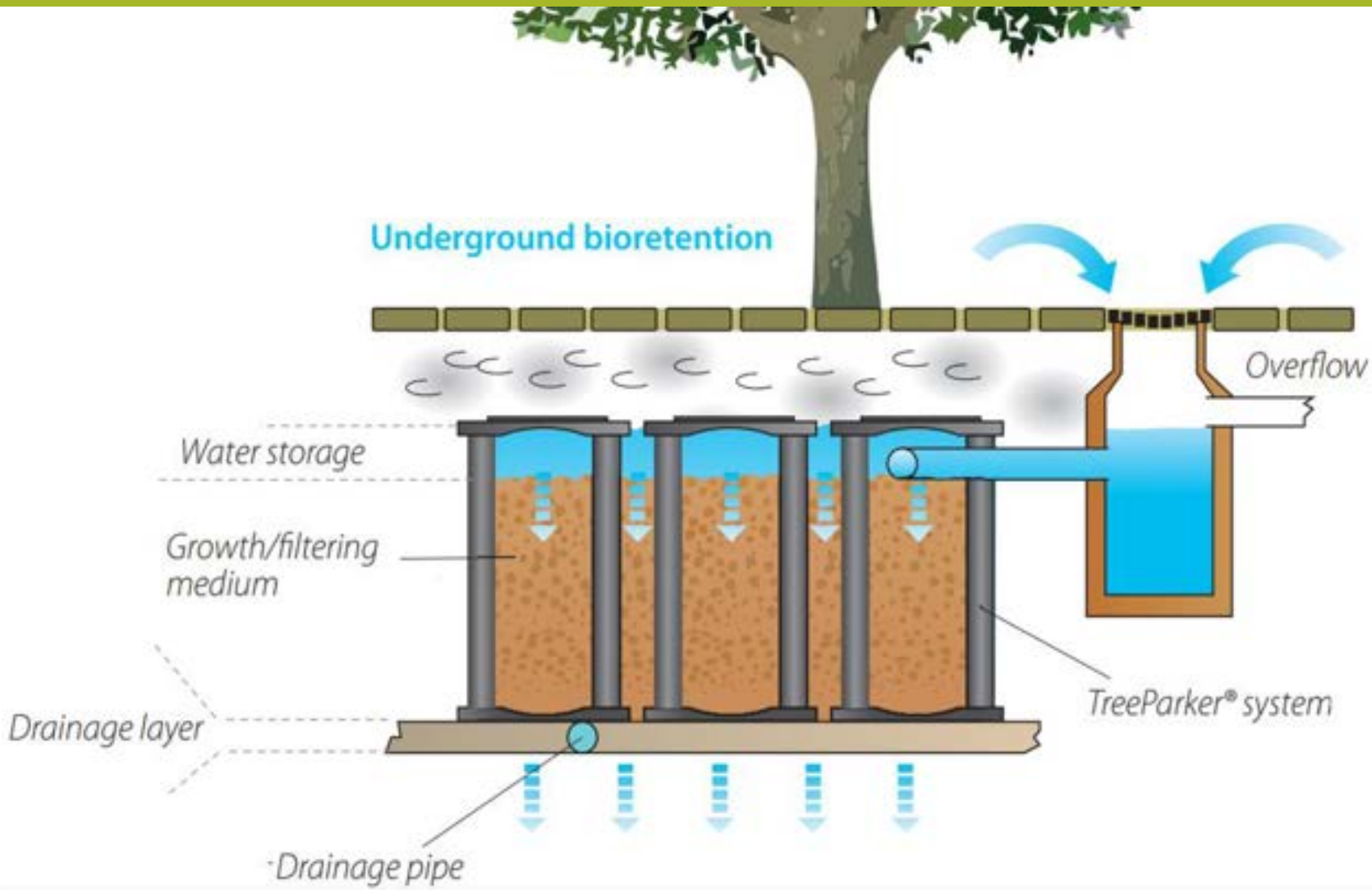


SUDS & CIRCULAR ECONOMY

ROAD
CLOSED
DUE TO
FLOODING



TREEPARKER WATER MANAGEMENT

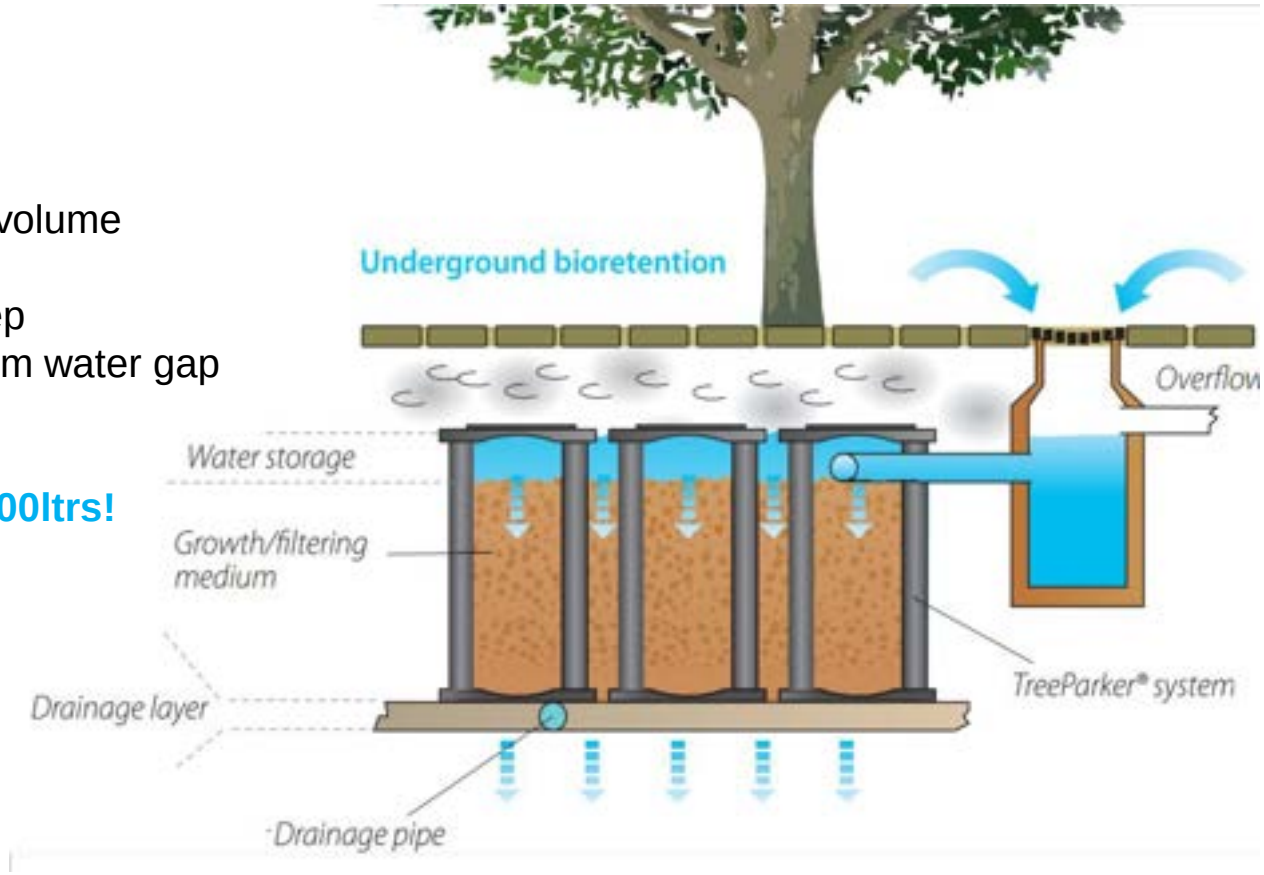
SuDS Tree Pits

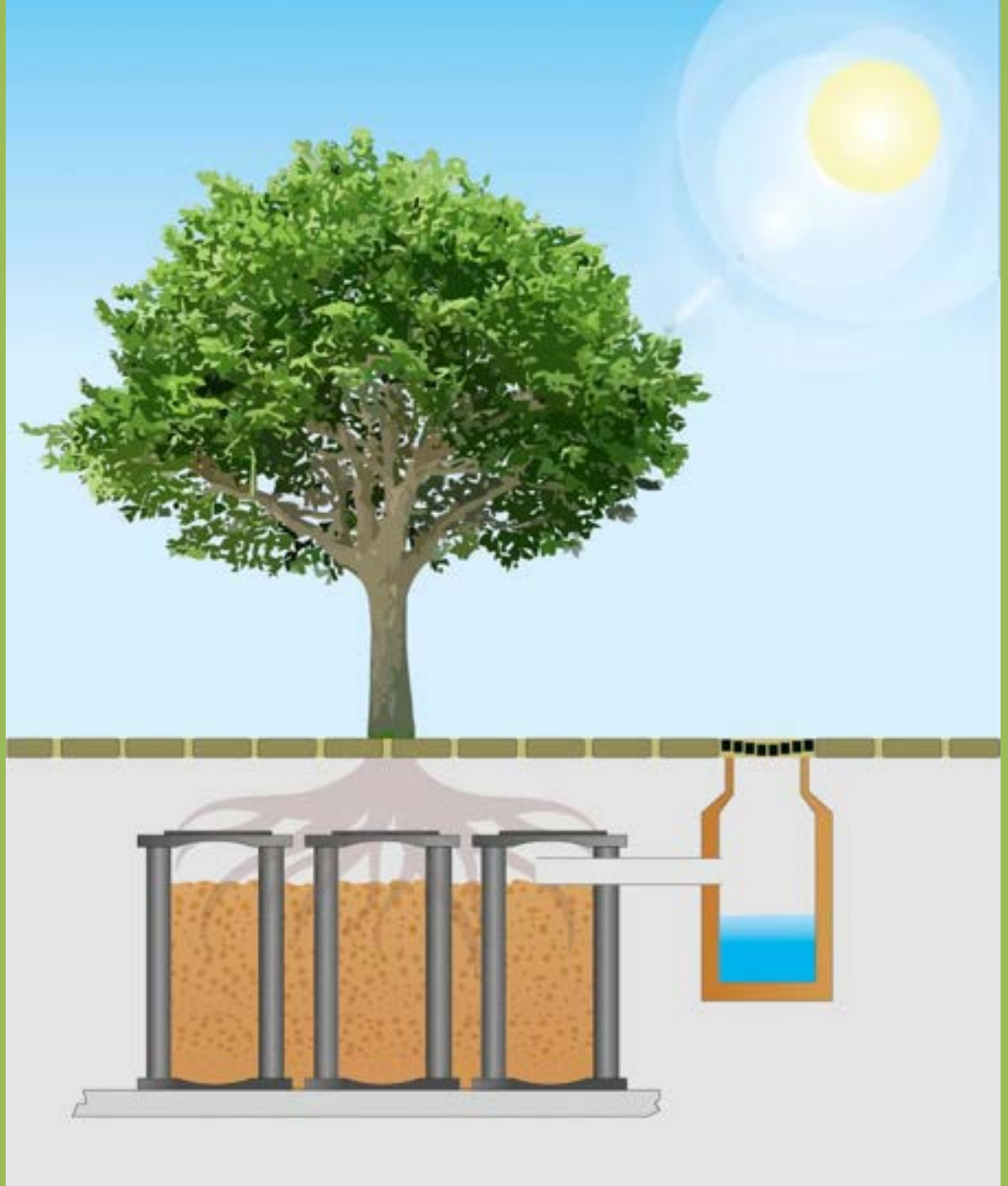
1 medium tree = 14m3 soil volume

4.8m x 4.8m @ 800mm deep
600mm soil volume + 200mm water gap

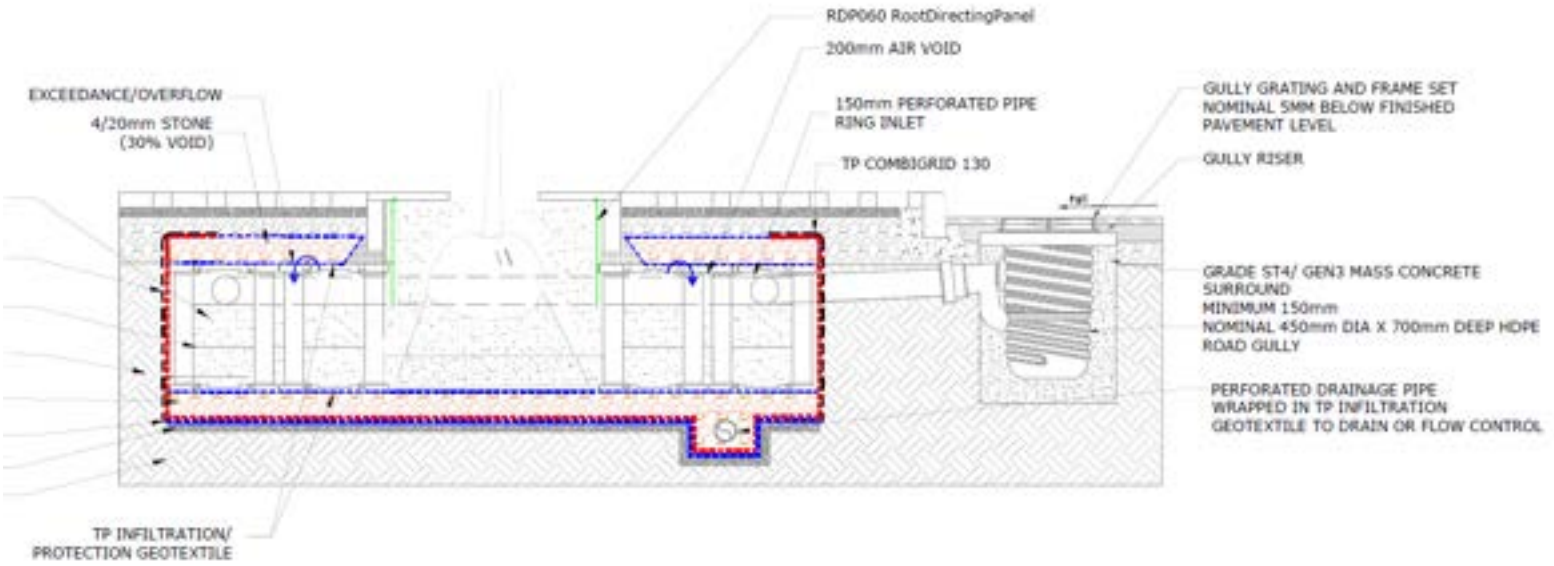
= 4.6m3 water storage/4,600ltrs!

+ 240 Overflows!





tree
BUILDERS



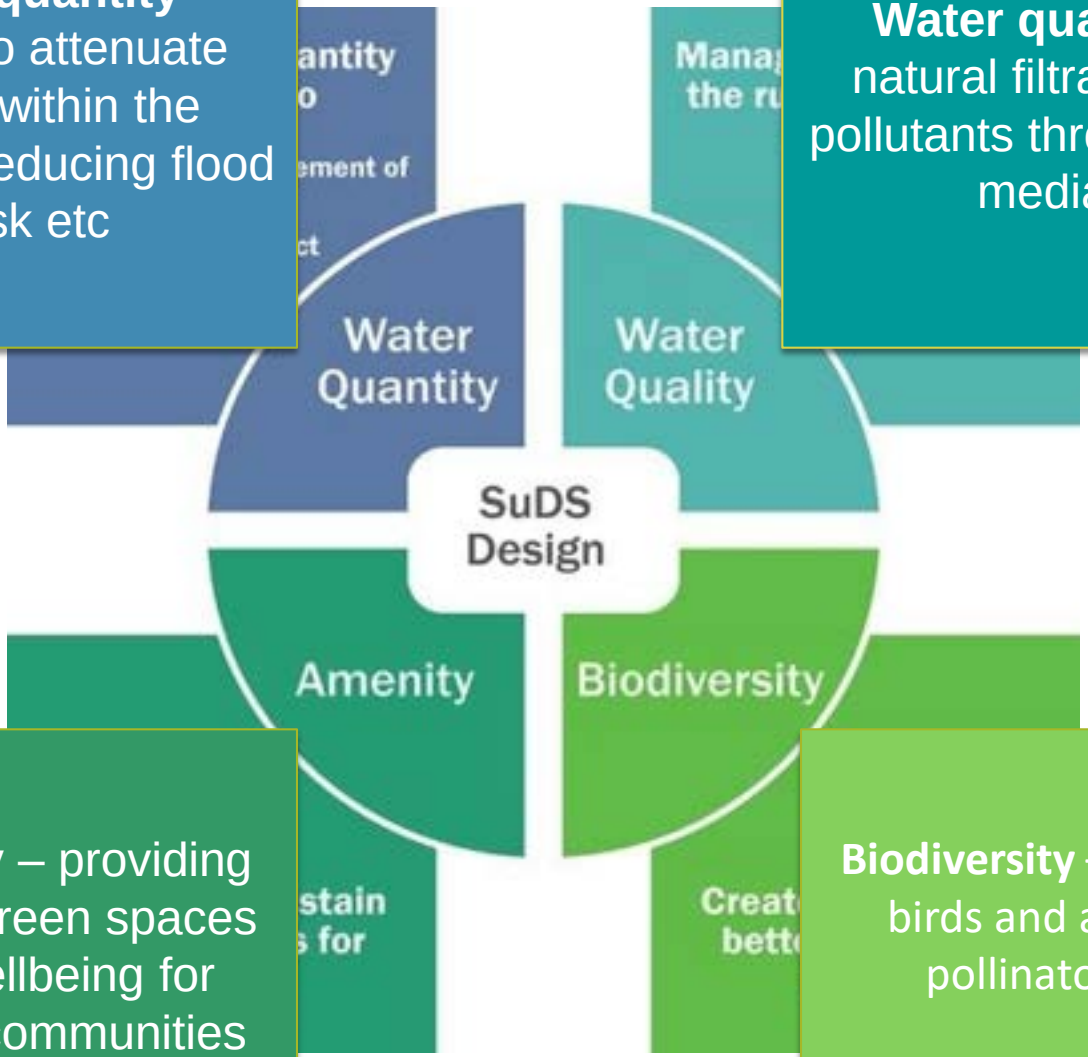
SK2 - TREEPARKER SUDS TREEPIT
700mm DEEP TREEPARKER SYSTEM WITH 200mm AIRGAP AND 150mm CLEAN STONE TOP AND BASE

Combine the elements

30% type 3 build up + 200mm void + 25% soil + 30% drainage layer = **23m3!**

Water quantity – ability to attenuate water within the system, reducing flood risk etc

Water quality – natural filtration of pollutants through soil media



Amenity – providing shade, green spaces and wellbeing for people/communities

Biodiversity – habit for birds and animals, pollinators etc

GARE DE TROYES
SNCF

LIFESTYLE

Any questions?

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