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 A BIM-GIS VALUATION MODEL OF URBAN GREEN INFRASTRUCTURE PROJECT

The project is born from a real municipality competition, in fact the Mayor wants a green place that can connect the central part of Rotterdam with the suburban one. The main hope for this part of Rotterdam is the transformation of an unwelcome, traffic dominated Oostplein into a green urban park at the entrance of the city centre. As the below masterplan shows the green will become the main element of the project. Also the viability will be completely modified, giving less importance to cars and more importance to pedestrians and bicycle circulation, but also to the public transportation.



1

GLEDITSIA TRIACANTHOS
 "SUNBURST"
 Crown structure | open
 Crown shape | egg-shaped
 Height | 8 - 12 m
 Width | 4 - 8 m
 CO2 absorption in 30y | 2490kg

2

PLATANUS X HISPANICA
 Crown structure | semi-open
 Crown shape | rounded
 Height | 20 - 30 m
 Width | 18 - 25 m
 CO2 absorption in 30y | 3660kg

3

PINUS SYLVESTRIS
 Crown structure | semi-open
 Crown shape | pyramidal
 Height | 25 - 30 m
 Width | 10 - 15 m
 CO2 absorption in 30y | 4800kg

4

ROBINIA PSEUDOACACIA
 "NYIRSEGI"
 Crown structure | semi-open
 Crown shape | wide oval
 Height | 20 - 25 m
 Width | 12 - 18 m
 CO2 absorption in 30y | 4800kg

5

CERCIDIPHYLLUM JAPONICUM
 Crown structure | dense
 Crown shape | egg-shaped
 Height | 8 - 12 m
 Width | 6 - 9 m
 CO2 absorption in 30y | 2490kg

STATE OF ART
 STATE OF PROJECT