

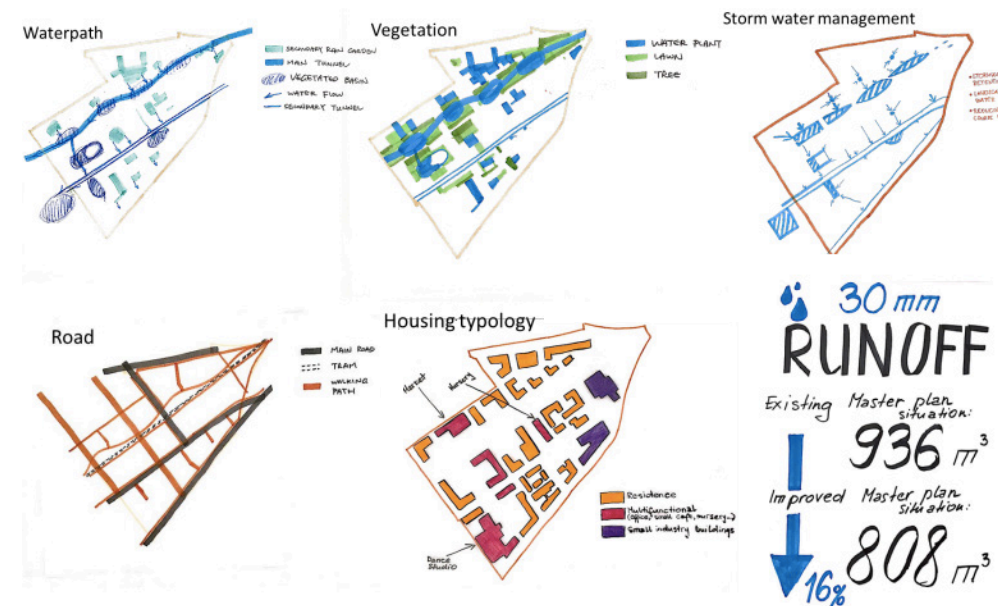
Run-off coefficient calculation

The run-off coefficient defines the ratio of the run-off depth to precipitation depth. A coefficient calculator is a tool which determines the peak discharge from drainage basin run-off: the amount of water passing over a given area for a certain time period.

Why: With the run-off coefficient calculation, it is possible to quickly estimate the effect of the land-use change on the run-off volume.

How: The run-off of the existing situation can be compared to potential land-use changes: how the increase or decrease in impermeable surfaces will affect the amount of stormwater discharge or flooding risks and if the watercourses can manage the change.

Good to know: The run-off coefficient does not consider qualitative changes (although changes in run-off volume often also indicate changes in water quality).



Run-off calculations were utilized during the iWater summerschools to quickly study the effect of different land use solutions on the amount of stormwater runoff.

References / More information / Useful links

Example of an online run-off coefficient calculator:
www.lmnoeng.com/Hydrology/rational.php

Climate-proof City project (www.ilmastotyokalu.fi) (Excel tool for site scale calculation):
www.ilmastotyokalu.fi/files/2014/07/3.2.Hulevesien-mitoitus-tontilla_työkalu.xls

