**Wind data**　　　　**Geographical data**

*Wind speed*　　*Wind direction*　　*Buildings*　　*Vegetation*　　Building Röckle zones

**1. Creation of URock geometries**

Grid　　Rotated vegetation & stacked blocks　　Upwind facades　　Downwind facades

**2. Effect of all obstacles on the wind**

Study area morphology parameters

**3. Effect of individual obstacle on the wind**

Uniform wind profiles

Wind factor near obstacles

**4. Wind speed calculation**

Final wind field