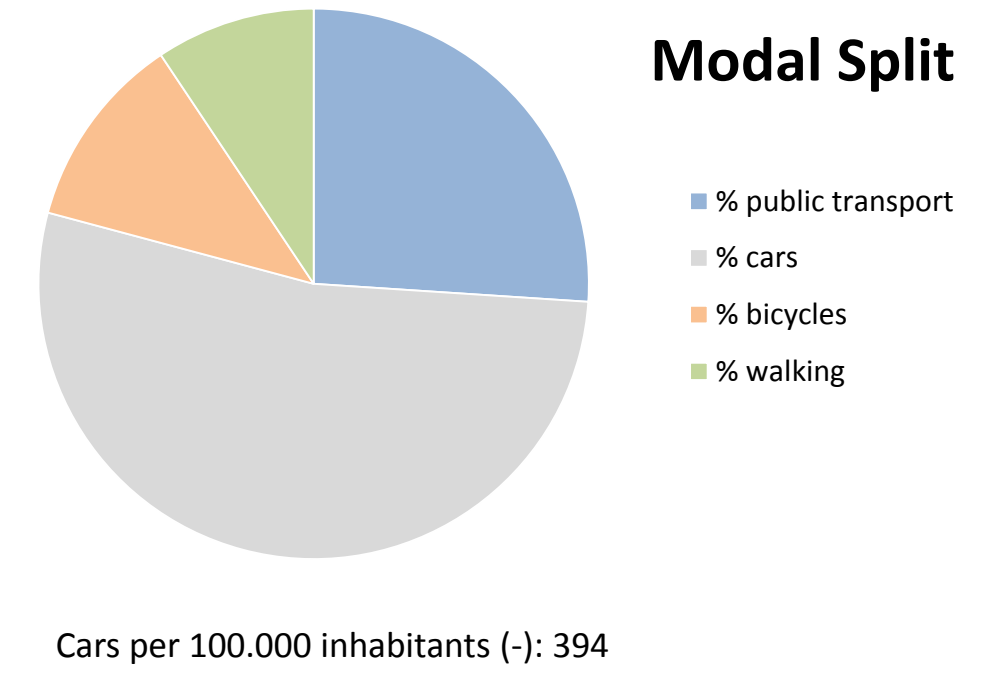
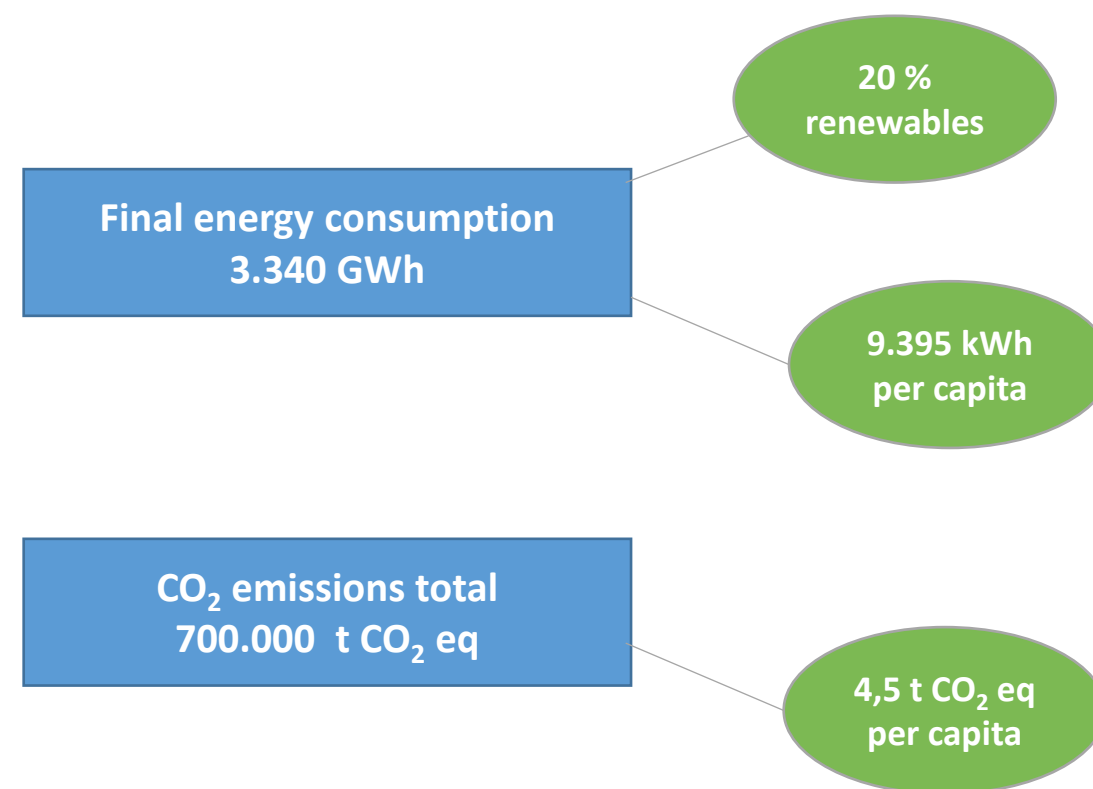


## City Facts

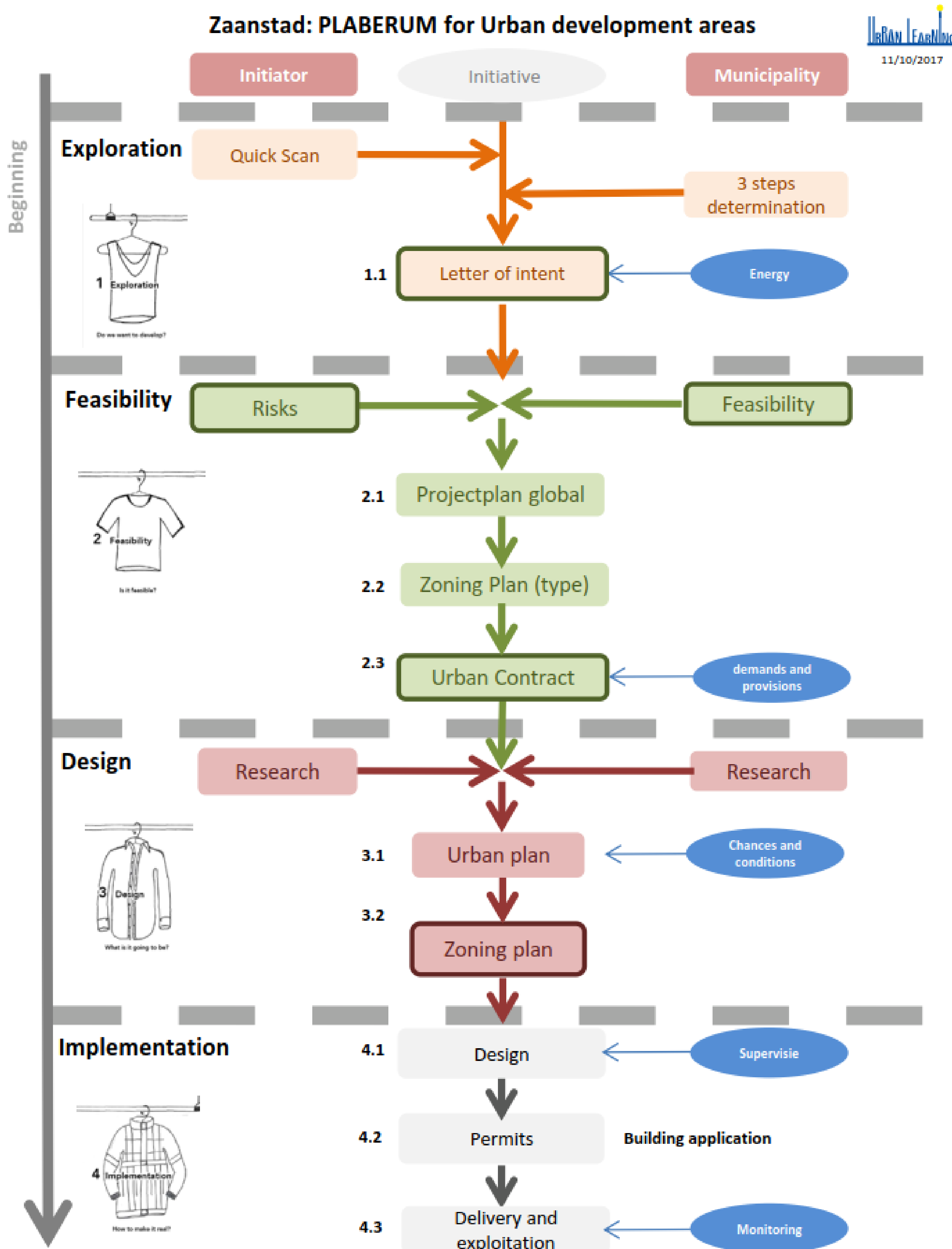
General data		
Size (km <sup>2</sup> )	-	83,04
% of green area	-	0,74
% of water (incl recreational)	-	11,2
Size (population)	2017	154.442
Density (Inh./km <sup>2</sup> )	-	2079
Density (houses/km <sup>2</sup> )	-	913
Annual population growth (%)	-	1,01
Purchasing Power (GDP/capita in EUR)	-	-



## Approaches towards integrative energy planning

### Zaanstad's urban planning process with integration of energy

### Important issues towards integrating energy aspects into existing procedure



- The energy issue is too big to solve it without integrating in the planning process. Every opportunity has to be seized
- Goals of renewables need strong supplementary measures and different energy infrastructure. Therefore, close cooperation between urban and energy planners is needed
- Changing in the framework conditions are giving new opportunities (Environmental law which will substitute many other laws such as Planning Act)
- The responsibilities and the strategy about how to transform energy infrastructure and related goals weren't clear

### Some recommendations for integrative energy planning

- Implementation framework is needed (for new sustainable energy/heat energy infrastructure)
- Define specific responsibilities of the involved (governmental) organizations
- Involve neighbouring municipalities
- Use legal instruments to support the transformation to a sustainable energy/heat supply (establish principles)
- Integrate energy planning from the start of the planning process
- Develop new instruments as format for heating plans etc.
- Create awareness on energy and generate expertise