

# Reflections on accessibility and home



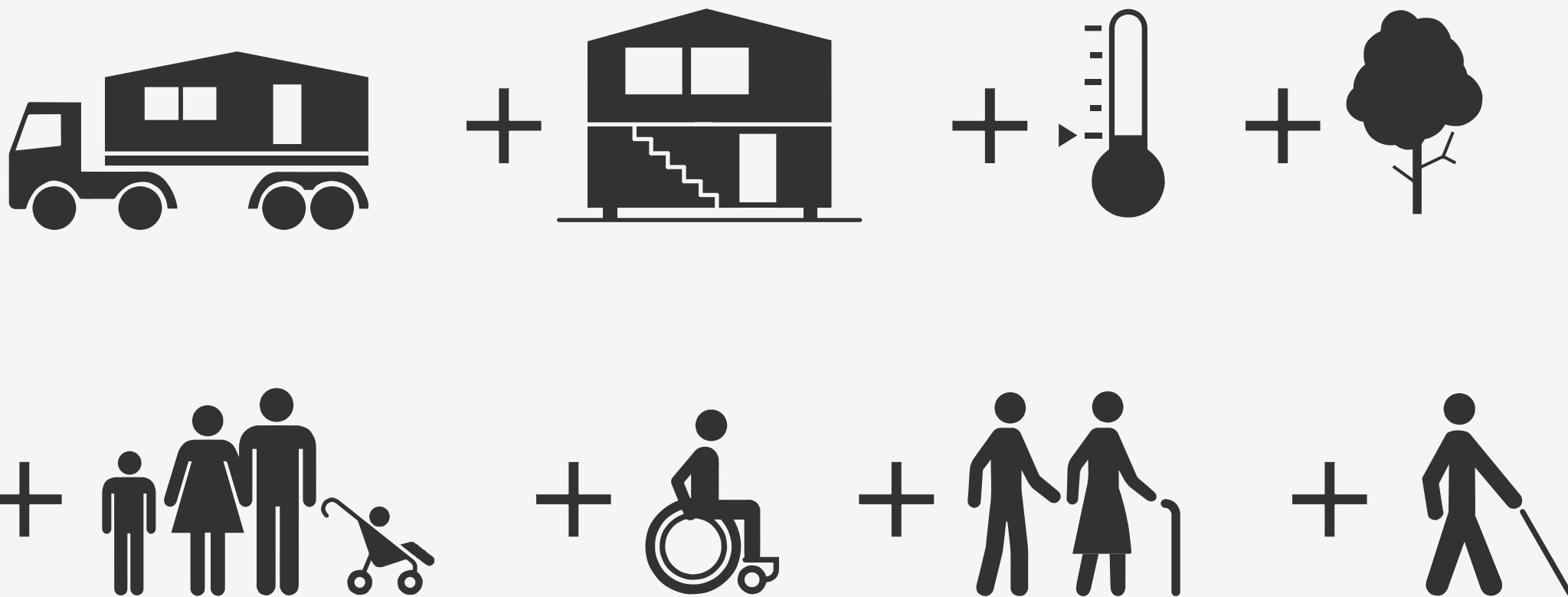
# Concept

rendering: Studerus, 2014



# Conflicts

basic vectors: The Noun Project, 2014



# Conflicts

## Flexibility

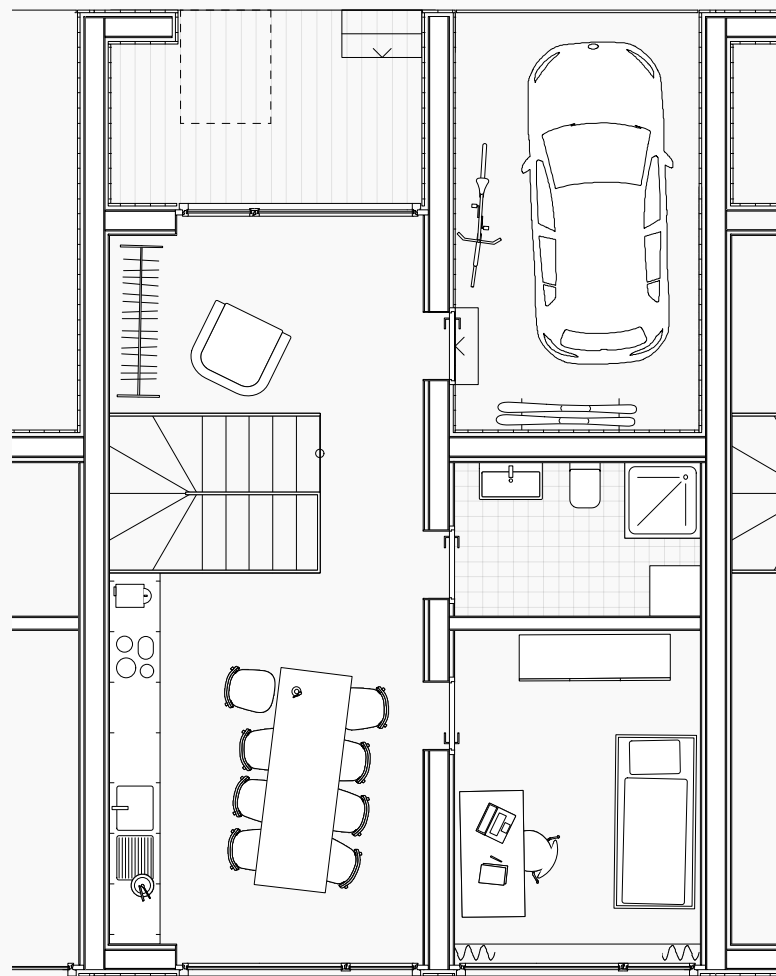
Oxford Dictionary: the ability to be easily modified

## Adaptability

Oxford Dictionary: the ability to be modified for a new use or purpose

# "normal" floorplan

floor plan: Studerus, 2014



Ground floor

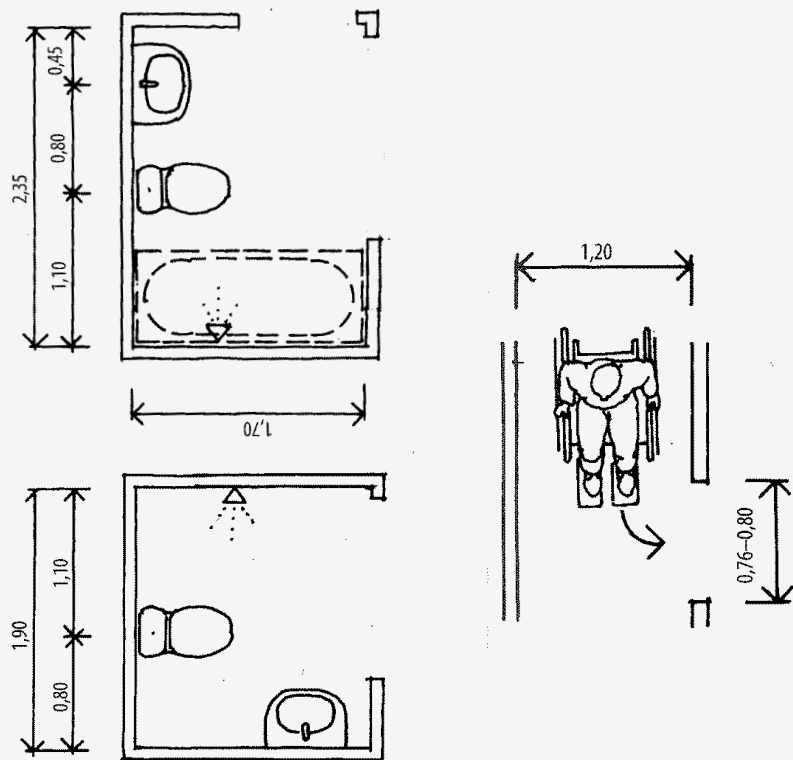


Top floor

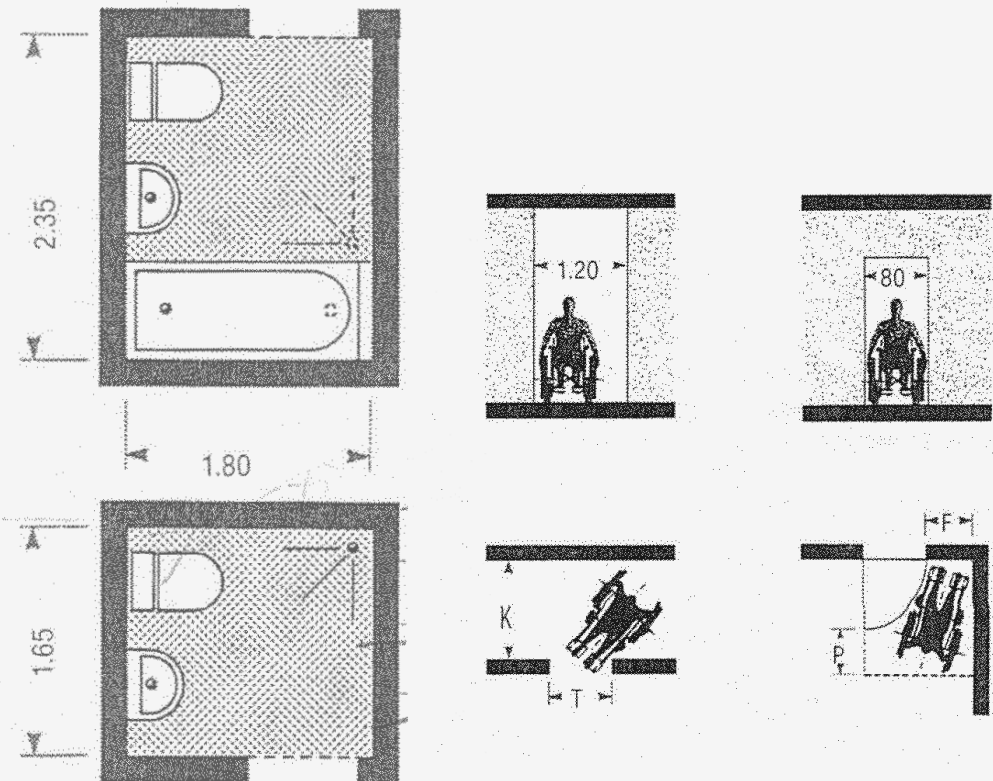
0 1 m  
107 m<sup>2</sup>

# Regulations

- Access, Level differences
- Width of doors and corridors
- minimal room size of bathroom and kitchen



Swedish Norm (bygg ikapp handikapp, 2012)



Swiss Norm (SN 521500, 1988)

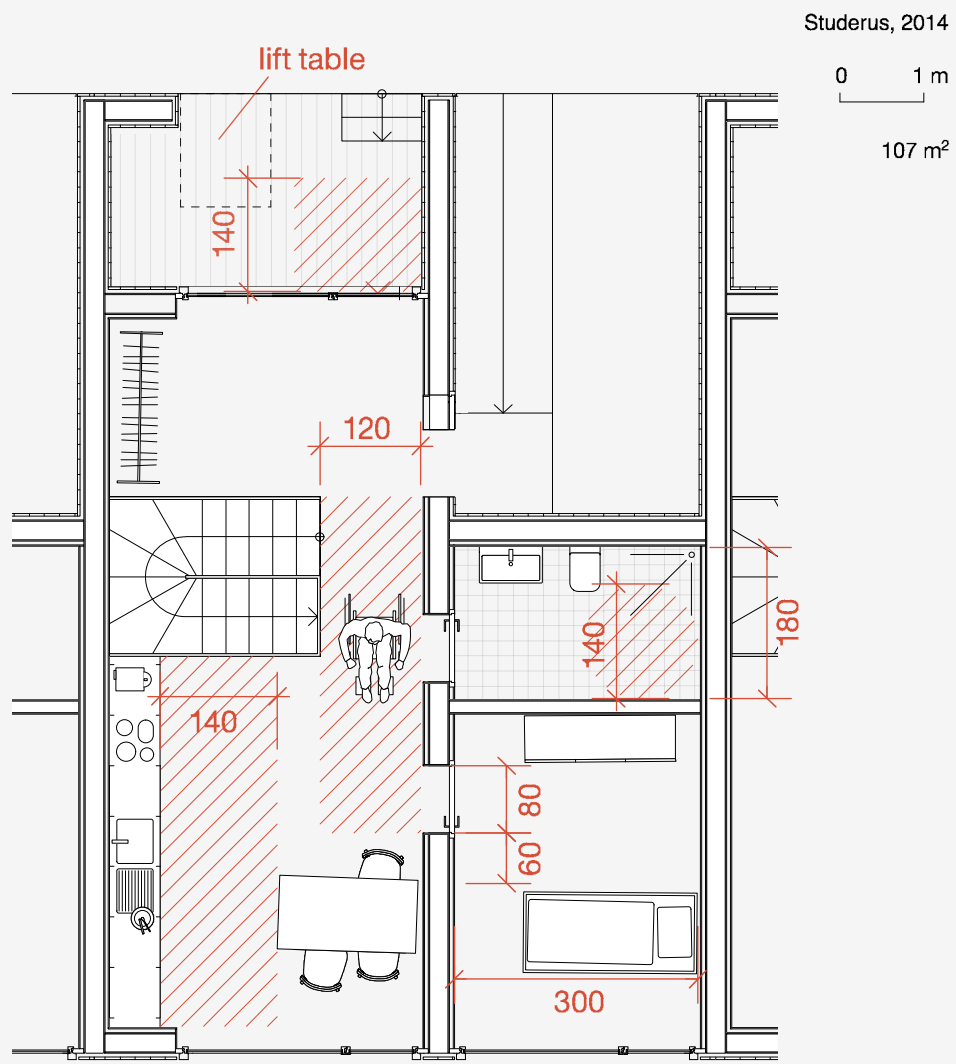
# Regulations

just a few regulations have a huge impact on the design

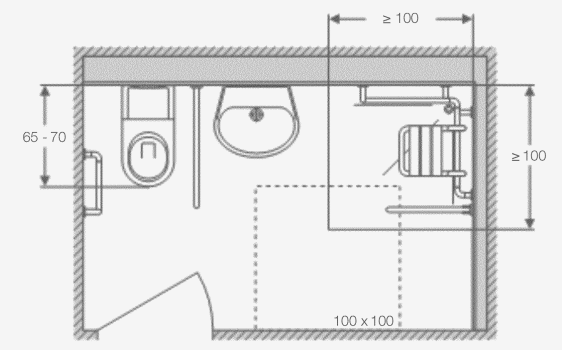
regulations are precise and strict, there isn't any range to decide

they are easy to understand, but often hard to fulfill (architectural concept vs. regulations)

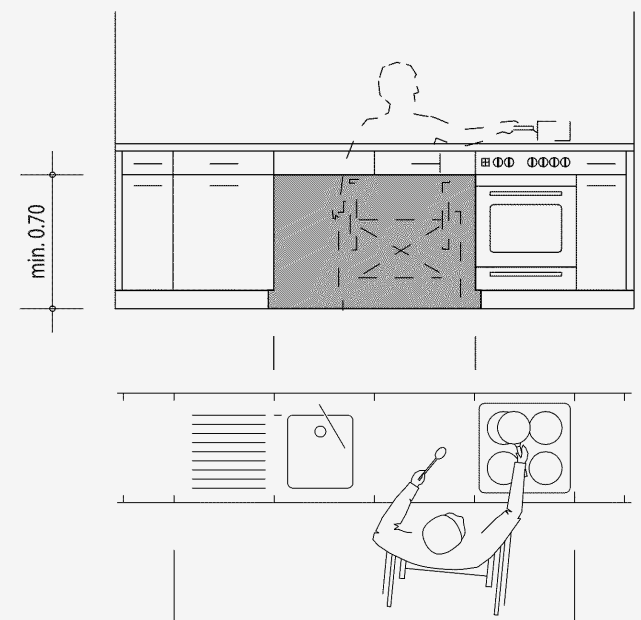
# "normal" floorplan



Ground floor



Bathroom (Geberit, 2011)



Kitchen (ZHB, 2005)

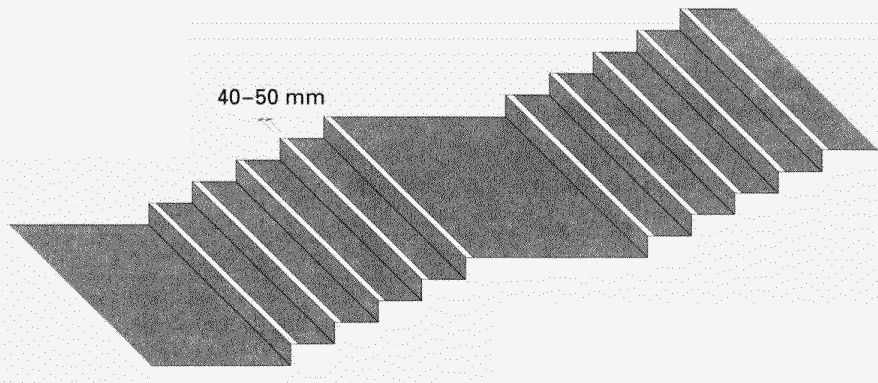


# visual impairment

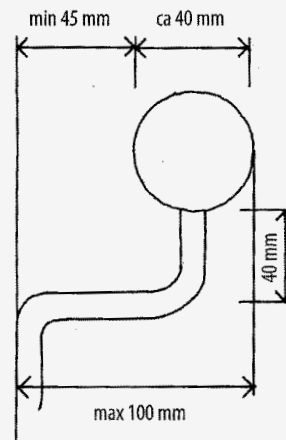
interventions are more individual

contrasts are important

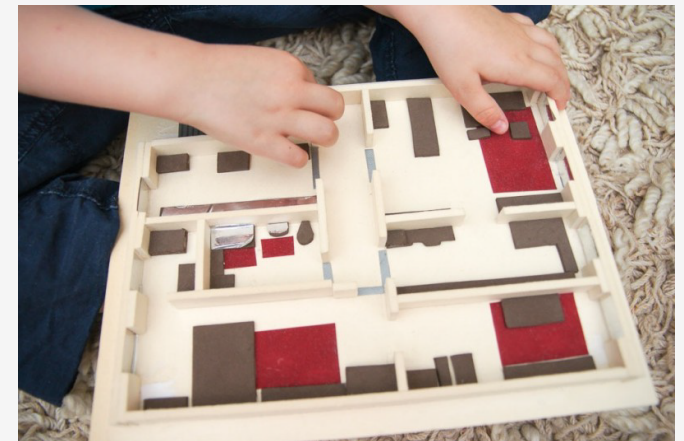
habit vs. learning



SIA 500, 2009



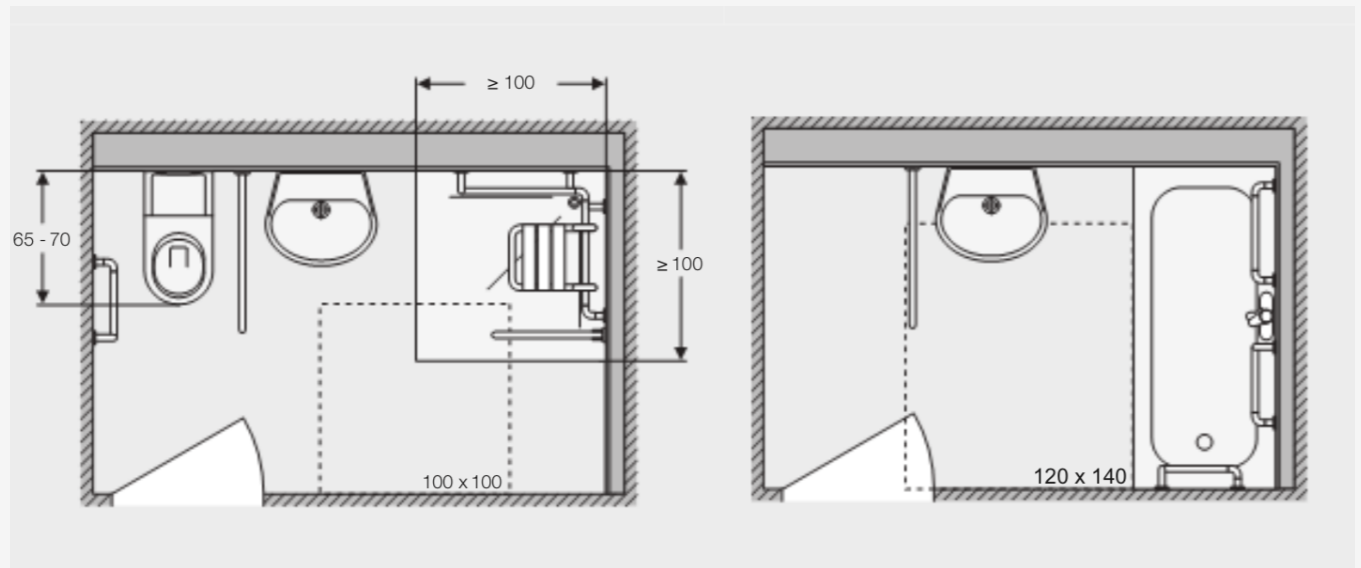
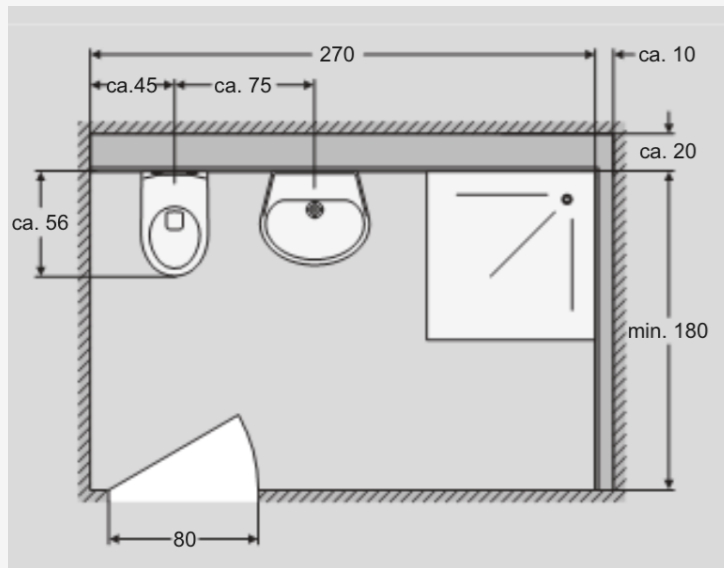
bygg ikapp handikapp, 2012



anderes sehen e.v.

# adaptability to personal needs

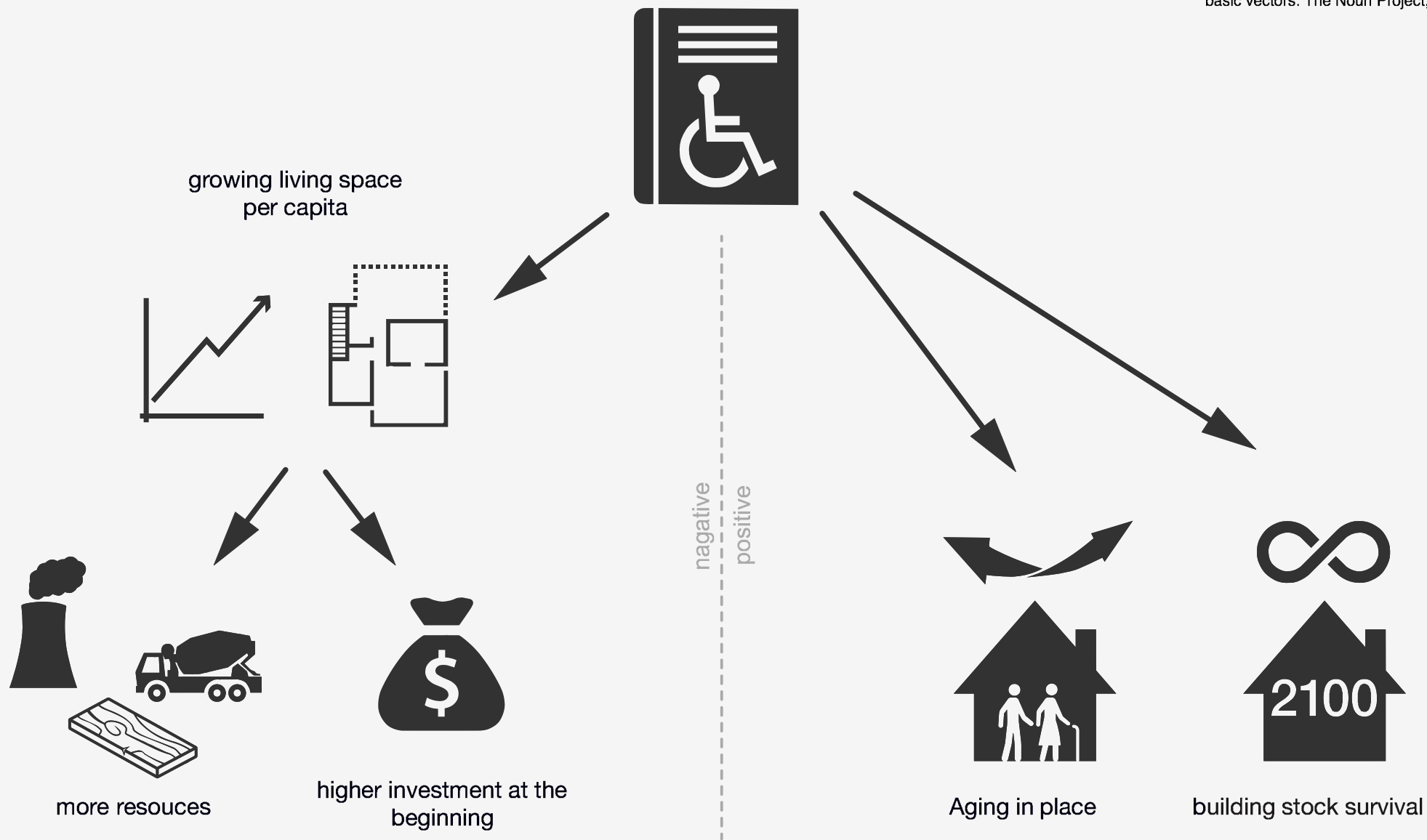
hygiene spaces, which allow changes in an easy way due to changes in the users' lifestyle, and mainly without changing the floor plan and installations



Geberit, 2011

# Consequences

basic vectors: The Noun Project, 2014



# Conclusion

Current trends in modern architecture imply solving accessibility and usability in a normative way by detailed guidelines. However, these are based on minimal width and minimal room size, which could block a necessary awareness by the designer to create accessibility and usability.

Rules on accessibility and usability have a major impact on architectural designs, but how strict should these rules be? Perhaps, the matters could be associated with a cost-benefit thinking in a life course perspective, since aware design solutions create a long-term accessible architecture. That's why accessibility and usability is really a matter of adaptability and flexibility according to various user needs. This thinking does not only influence the architectural design, but also installation techniques and welfare technologies.

# References

Geberit: "Planungshandbuch Sanitär" 2011

SIA (Swiss Society of engineers and architects): "SIA 500 Hindernisfreie Bauten" 2009

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Svensk byggtjänst: "bygg ikapp handikapp" 2012

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ZHB: "Hindernisfreie Bauten" 2005