



# ECO CITY 2

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New beginning for uprooted and persecuted individuals

Geopolymer camp, July 2015

Wolfram Marwik

# REVIEW

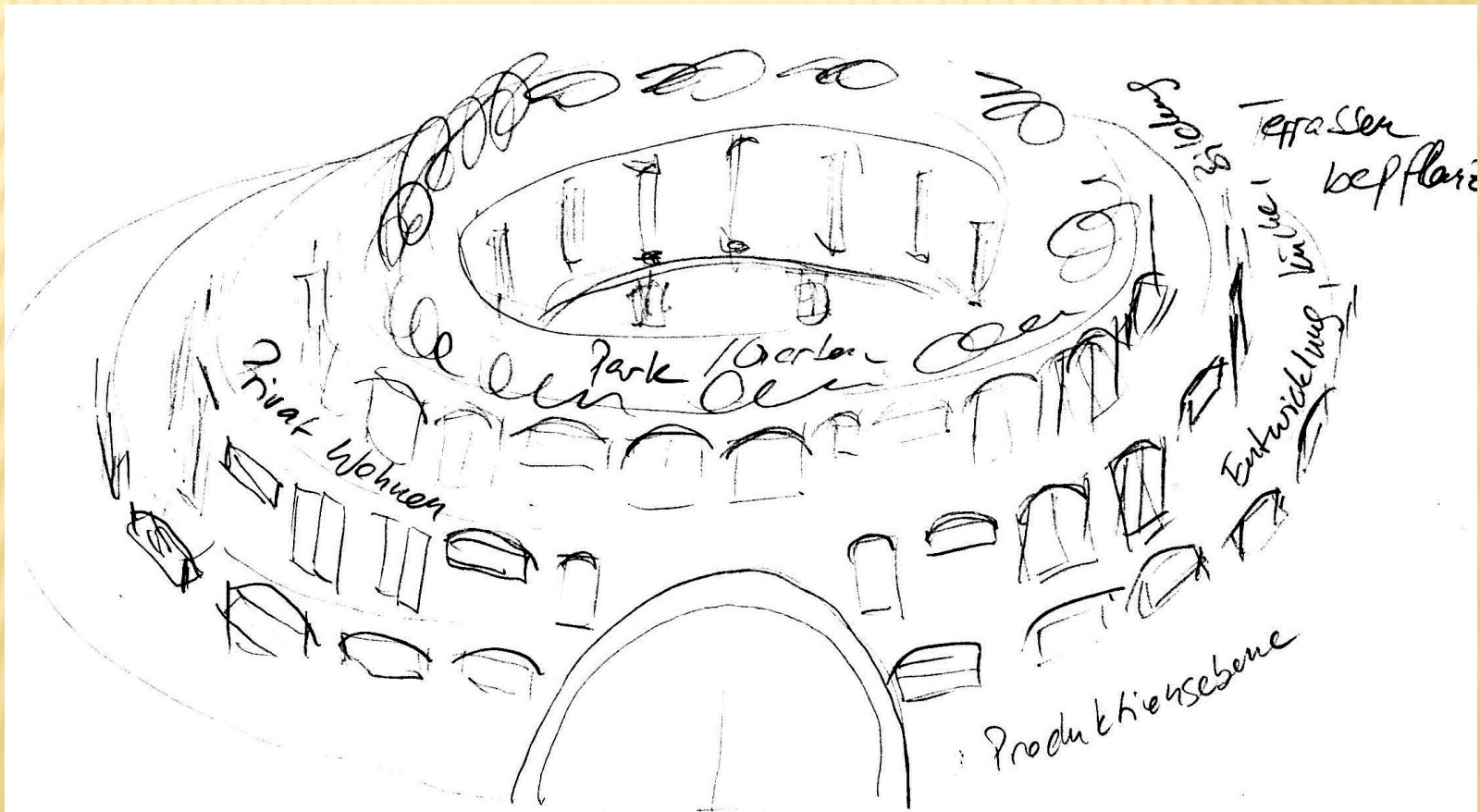
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## KEATEM

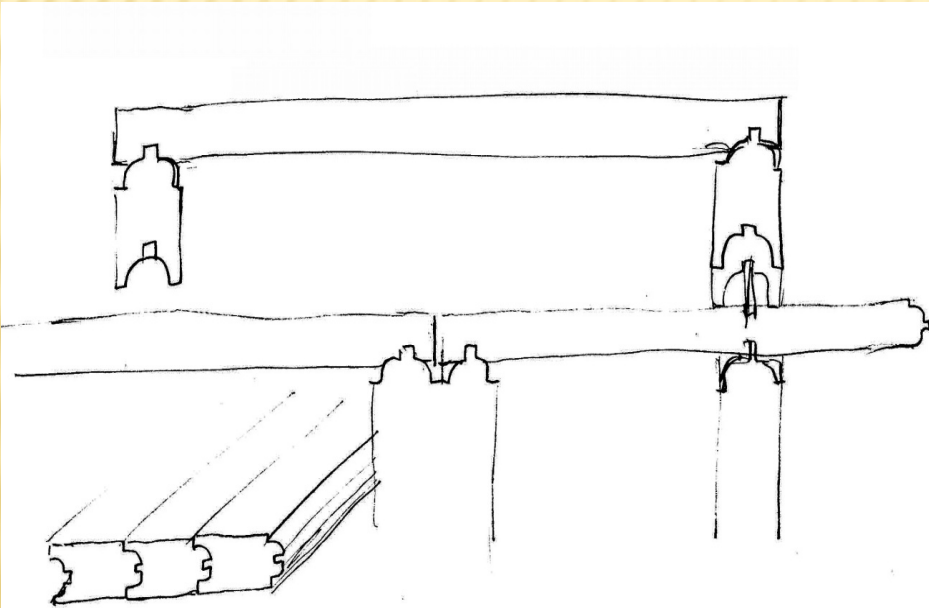
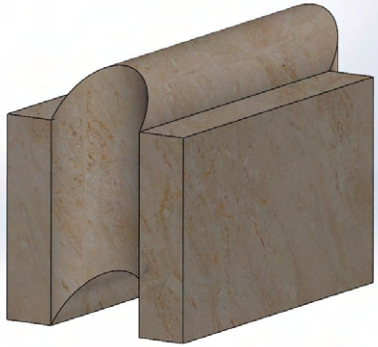
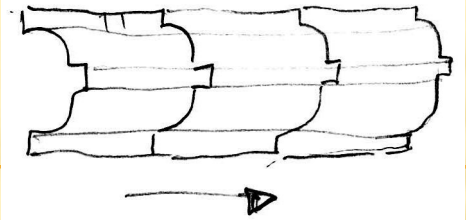
- ✘ Last year it was pointed out that Millions of people worldwide are on escape because of
  - + Wars
  - + Economical difficulties
  - + Natural disasters
- ✘ There need to be provided educational and practical tools to teach people on how to help themselves.
- ✘ Maimonides: Give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime.

# CONSTRUCTION – CITY IN THE DESERT

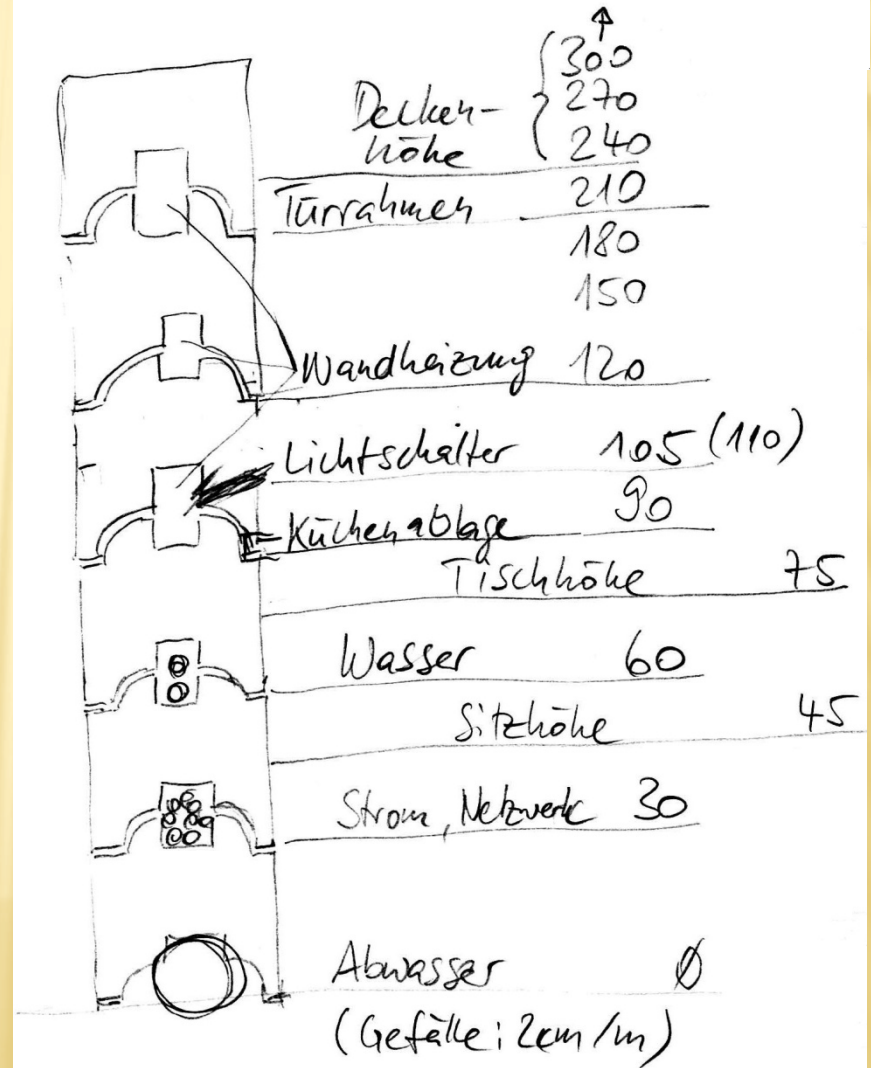
- ✘ Living & Working at same place



# BUILDING BLOCKS

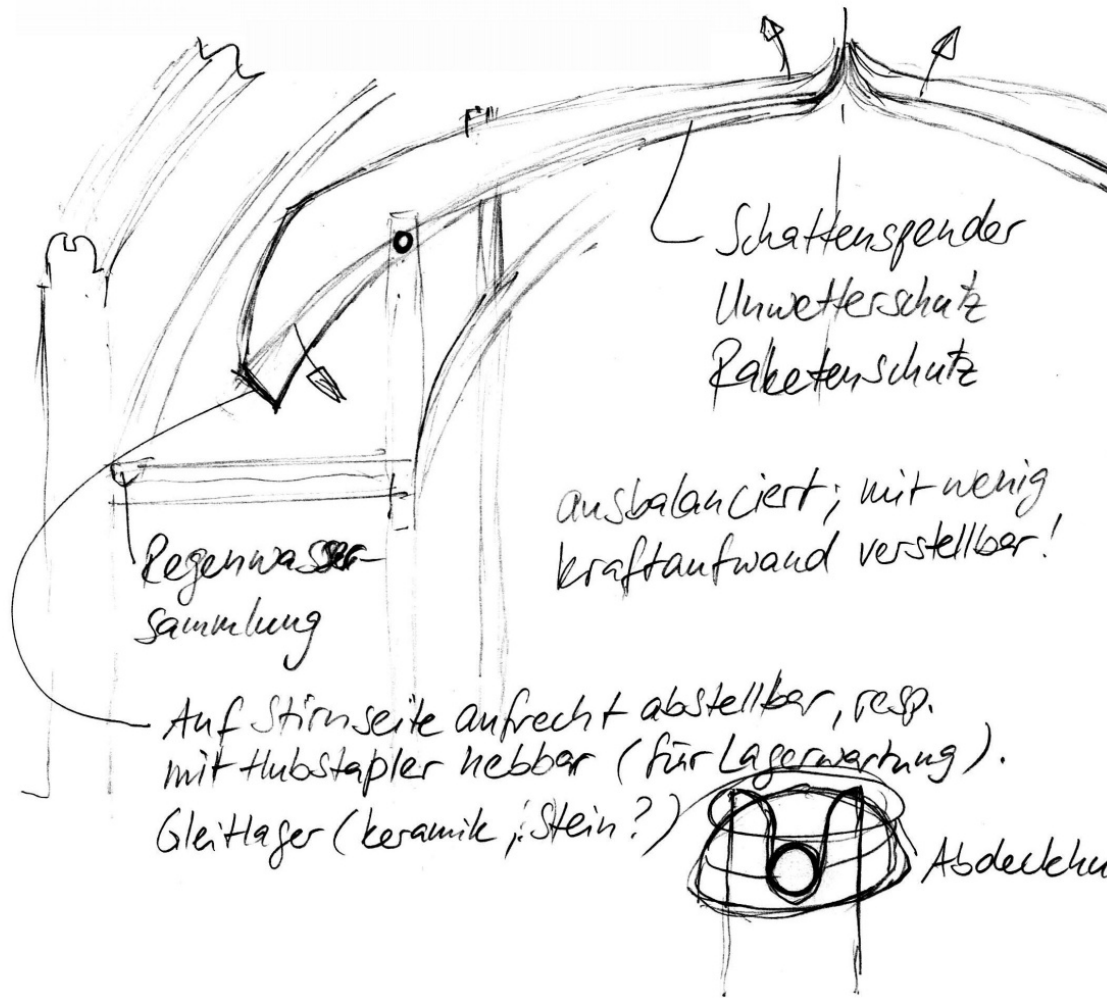


Wm 29.4.13



# TURNABLE ROOF LEAVES

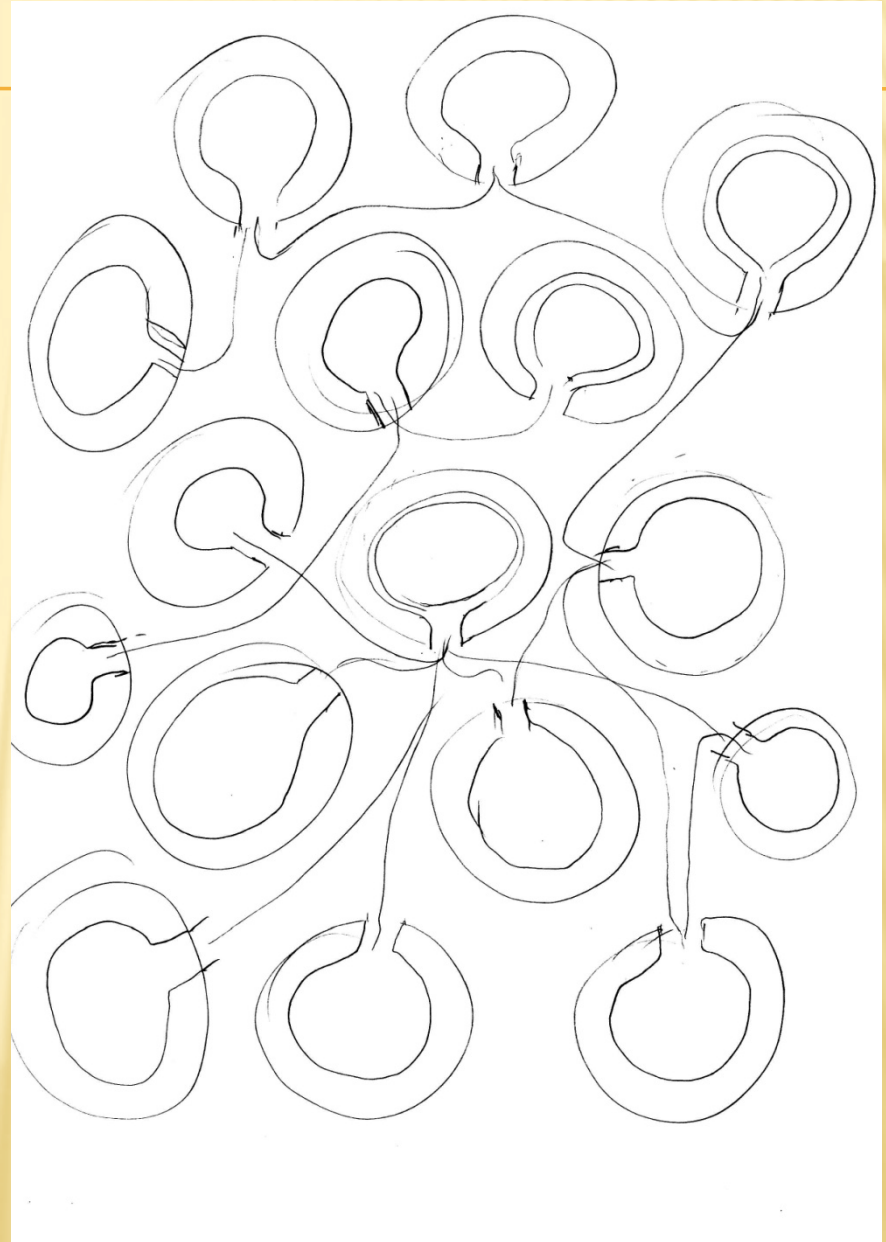
TURNABLE ROOF LEAVES



# MULTIPLY

WOLFEY

- ✘ An Ecocity is more a cell than a city, therefore
- ✘ Plan the
  - + Food cell
  - + Builder's cell
  - + Medical cell
  - + Vehicle cell
  - + Fishpond's cell
  - + Farmer's cell
  - + Etc...



# ACHIEVEMENT

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## ACHIEVEMENT

- ✘ In last year's presentation one of the major points was to find land to build a prototype
- ✘ On our desert trip last fall we got promise for that peace of land!
  - + Beautiful location
  - + Accessible by bicycle, car and bus
  - + Only 20 mins away from major desert high-tech university

# THE PLACE





# MATERIALS ONSITE

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- ✘ **To let people start debt-free, we need to use as many onsite materials as possible:**
  - + Lateric clay from local quarries
  - + Sahara sand
  - + Lime stone
  - + (MgCl from Death Sea salt)
  - + (Fly ash - probably limited, as power stations are slowly converting to natural gas)
  - + (Any other chemicals would be obtainable quite easily)

# CONTINUATION

- ✘ My personal priorities:
  - + finish Swiss house as base-camp for future developments
  - + Create some additional income
  - + Continue with EcoCell (EcoCity) project
- ✘ Some slides about my current building project:



# GEOPOLYMER – LOOKING FOR ADVICE

- ✘ Reagglomerated lime stone seems to be appropriate for diffusion friendly wall building of multi floor buildings. How can we enhance its insulating properties without loosing mass and strength – Cenospheres?
- ✘ Is there a GP system dense enough to keep an encapsulated vacuum forever?
- ✘ What formula to use for
  - + pavements?
  - + ceilings / slabs?
  - + static pilars?
  - + Roof tiles?
- ✘ **If you have any solutions, please come back to me – thank you!**