ECOCITY 2
New beginning for uprooted and persecuted individuals

Geopolymer camp, July 2015
Wolfram Marwik
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

![Building Block Images]

- Deckenhöhe: 300, 270, 240
- Türrahmen: 210, 180, 150
- Wandheizung: 120
- Lichtschalter: 105 (110)
- Küchenöffnung: 90
- Tischhöhe: 75
- Wasser: 60
- Sitzhöhe: 45
- Strom, Nebenwerk: 30
- Abwasser: 0 (Gefälle: 2 cm/m)

[Diagram with measurements and symbols]
TURNABLE ROOF LEAVES

Schattenspender
Unwetterschutz
Raketenschutz

ausbalanciert; mit wenig Kraftaufwand verstellbar!

Eigensammlung

Auf Stirnseite aufrecht abstellbar, resp. mit Hubstapler hebt (für Lagerung).

Gleitlager (keramik / Stein?)

Abdeckblech
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...
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

- 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)
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:
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!