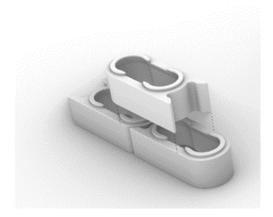


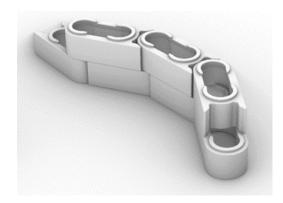
Product: Start Somewhere TwistBlocks

Interlocking Plug in System that allows to freely Play with the floor plan

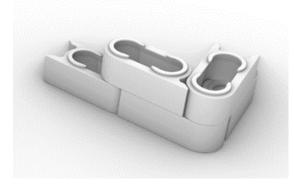




mortar-free plug-in system, dismantable, material-saving

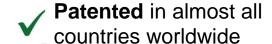


flexibility: stepless folding of the wall segments up to 45°



stepless folding of the corners up to 100°



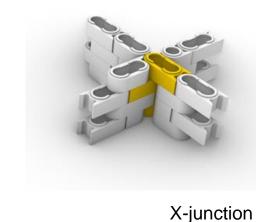




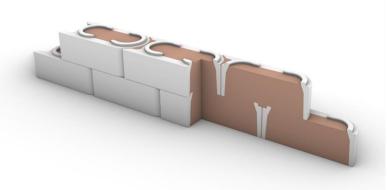
s certification

Kenya Bureau of Standards

Standards for Quality life



T-junction



optional backfilling with soil to optimize windproofness and thermal mass

Challenge – The problems of informal settlements

An estimated 3 billion people will require adequate and affordable housing by 2030





Problems of informal settlements:

Lack of jobs



- High unemployment rate, e.g. 50 % in Kibera, Nairobi
- Residents of informal settlements mostly work as low-paid day labourers in big cities under unfair conditions

Unsafe, unhealthy homes



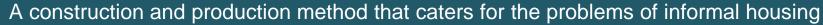
- Vulnerability to weather and disasters due to weak structures
- Fast spread of diseases due to no windows, dirt floor, leaky walls
- Fires spread quickly because of wood as construction material
- Costs for conventional buildings are too high

No secure land tenure

- The permanent risk of eviction discourages people from investing their limited financial resources to better housing
- Many low-income inhabitants meet their immediate need for shelter with poor shacks



Solution







How can the situation in informal settlements be improved?

Lack of jobs





Small-scale TwistBlock factories

Create know-how, jobs and value in concrete block manufactories within the slum area

Unsafe, unhealthy homes





Easy-to-build concrete houses

Affordable and flexible housing which is easy and quick to set up

No secure land tenure





Reusability

Enable private home ownership in uncertain legal environments: 85% of the blocks can be dismantled and reused in case of eviction



Holistic approach of Start Somewhere

A new construction method creates employment in local manufactories















Building Economics

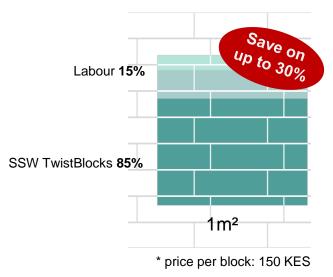


SSW TwistBlocks saves up to 30% in comparison to standard masonry construction



SSW TwistBlocks

- ~ 2000 KES per m² finished wall *
- Minimal construction time
- Save on formwork, plaster, mortar
- 🖶 up to 85% of blocks can be reused
- Modern design with curved walls



Standard Plastered Masonry

- ~ 2600 KES per m² finished wall *
- Low building speed
- Mortar, formwork, plaster required
- Low reusability of blocks
- Rough finish





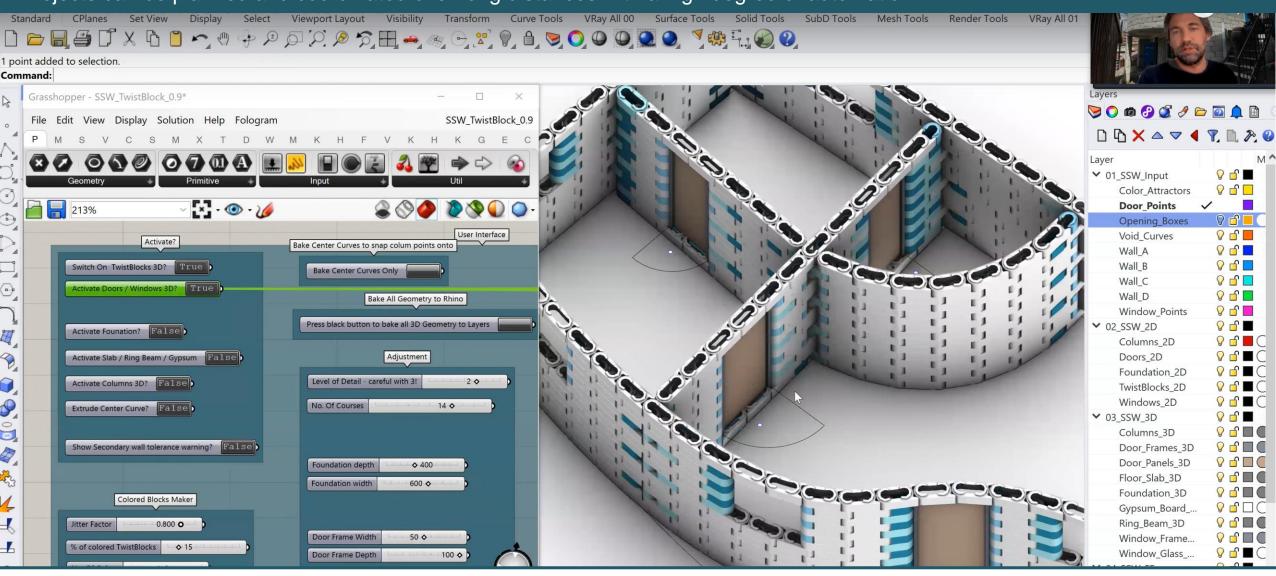




Planning Software



Projects can be planned and coordinated over long distances with a high degree of automation





All blocks are automatically generated in 3d, doors & windows can be placed intuitively, curves drawn in plan are automatically stretched to multiples of block lengths, block plans are generated, reinforcement is calculated and visualized

2 Story School building Kibera

somewhere

Built during pandemic only via plan illustrations and video call





Residents of Kibera apply the technology themselves

somewhere

3 local shops built self organized by trained workers for residents of Kibera

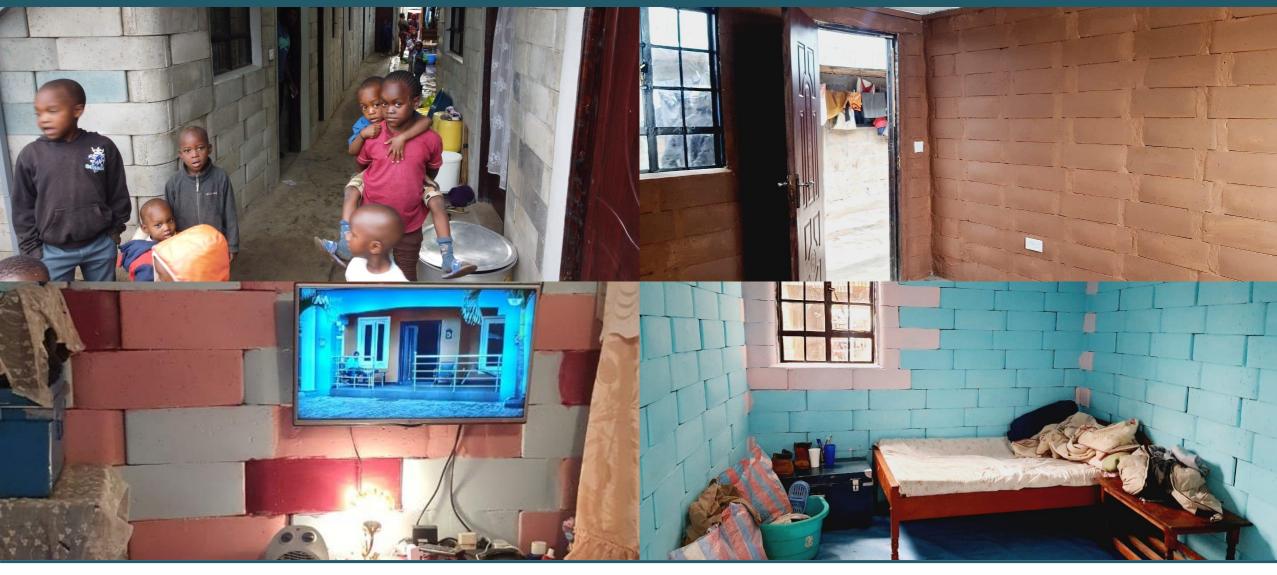




Residential Housing Kibera

11 housing units rebuilt after fire breakout







Factory and Campus in Ahero



Co-sponsored by Habitat for Humanity: Setup of a new factory that builds a new campus





The project is in cooperation with the Austrian NGO "Förderverein Fishnet", the Kenyan NGO "Go Fishnet" and "Habitat for Humanity" as co-sponsor and advisor. Habitat for Humanity aims to adapt the idea of the TwistBlock factory as a franchise model and scale it up.

"Bethany Joy School" in Kawangware, Nairobi

Start Somewhere has build a new school for over 400 kids in an informal settlement.









Global One New Primary School Kibera



Start Somewhere is building the first 3 storey school building out of TwistBlocks in Nairobi.







New Hope Initivative School Kibera

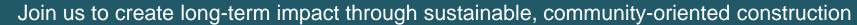


5 storey school building from a client in Kibera.

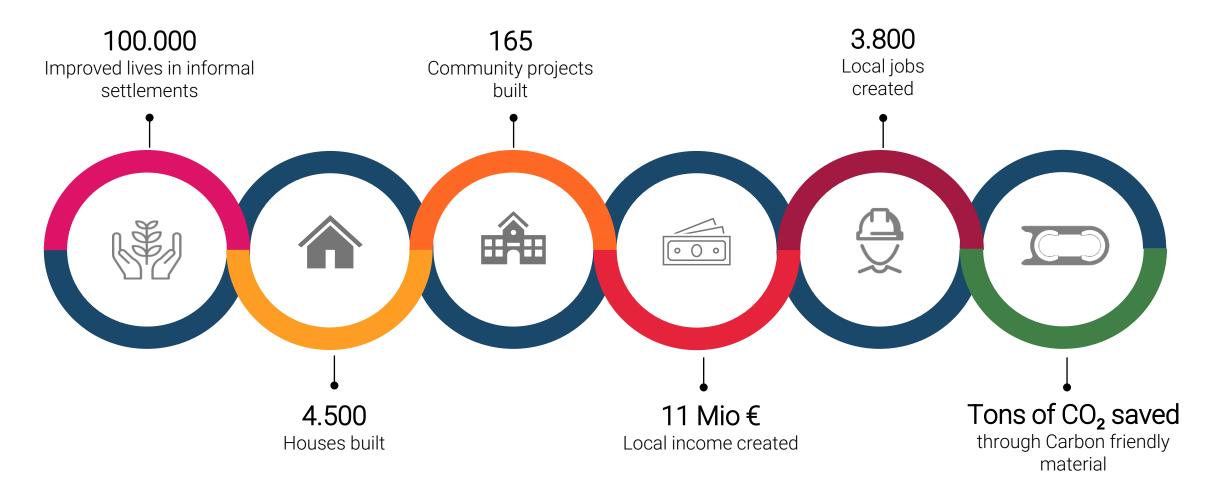




Our goals for 2030

























Outlook – ongoing research & development

CO2 - friendly materials and expansion of the construction system





Betonsteinwerk und Baustoffhandel seit 1964.





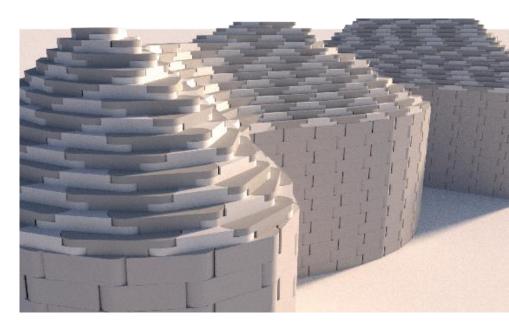
ÖSTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN



Hemp and Lime



Cement free concrete



Compatible roof system



No need for: Mortar, plaster or formwork

Added functions:

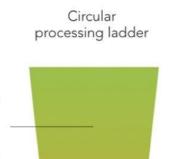
Blocks can double as flexible, reusable formwork.

Minimum use of materials:

Only 1/3 volume a full wall with only 10% cement

Focus on circularity and waste reduction:
TwistBlocks can be dismantled up to
90 % and be reused





Refuse Rethink Reduce Reuse Repair Refurbish Remanufacture Repurpose Recycle Recover



Source: Amsterdam Circular Strategy

Research & Development – TwistBlocks out of Hemp

More sustainable TwistBlocks are a longterm goal of Start Somewhere









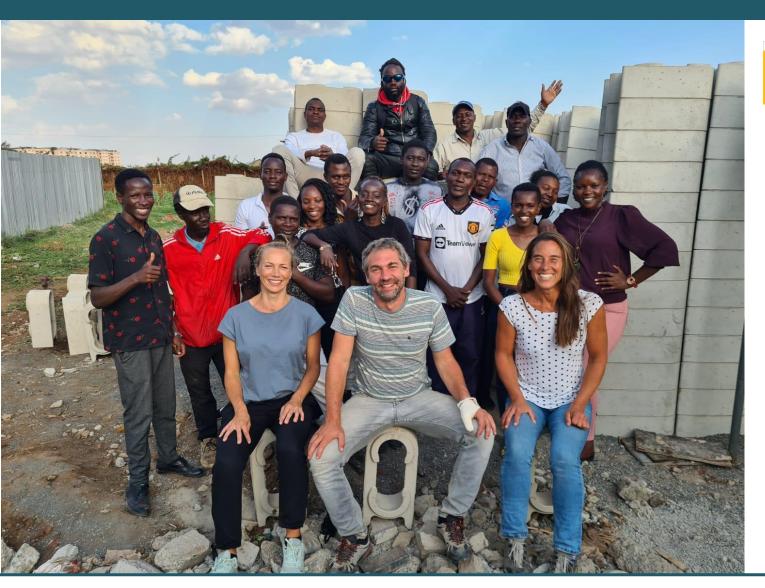




Please visit us on:

www.startsomewhere.eu







Transsolar KlimaEngineering







































Team Germany and Team Kenya with the first ever produced TwistBlocks and the first TwistBlock wall in Kenya. Below Start Somewhere's partner and supporter network.