WELCOME

African Union for Housing Finance

moladi
building communities

Established - 1986

AUHF 2014

African Union for Housing Finance

THE NEXT FRONTIER IN AFFORDABLE HOUSING

ALTERNATIVE BUILDING TECHNOLOGIES

HOME OWNER CRITERIA

- **SOCIAL ACCEPTANCE**
- **AFFORDABILITY**

YESTERDAY'S TOOL...

"Our age of anxiety is, in great part, the result of trying to do today's jobs with yesterday's tools".

INNOVATION

TRANSPORT

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PROGRESS

OLD **NEW**

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INNOVATION

CONSTRUCTION

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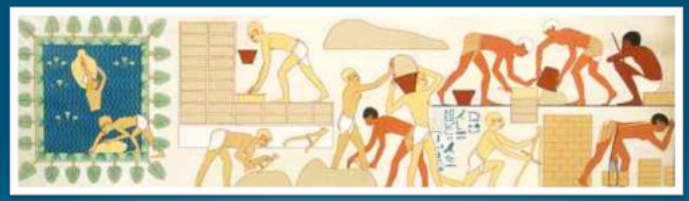
CONSTRUCTION



THEBES 1458 B.C.

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PROGRESS

OLD **NEW**

3500 YEARS

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ARTISAN

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QUALITY

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CASH FLOW

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CONSTRUCTION CYCLE

- Erratic supplies = Erratic delivery
- Dependant on skilled labour
- Slow delivery
- Waste
- Rework
- Inconsistent quality
- Unpredictable cash flow
- Increased cost

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YESTERDAY'S TOOL...

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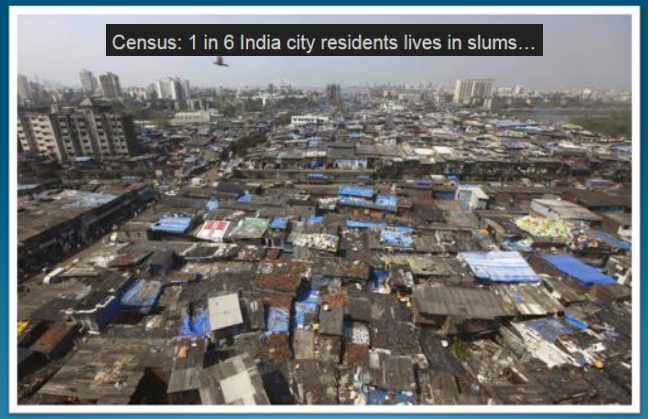
TODAY'S PROBLEM...



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INNOVATION

"Don't find a fault, find a remedy."
Henry Ford

WORLD DESIGN CAPITAL
CAPE TOWN 2014

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DISRUPTIVE INNOVATION

RAFT FOUNDATION FORMER

RAFT FOUNDATION - COMPACT

RAFT FOUNDATION-TRENCHING

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RAFT FOUNDATION-TRENCHING

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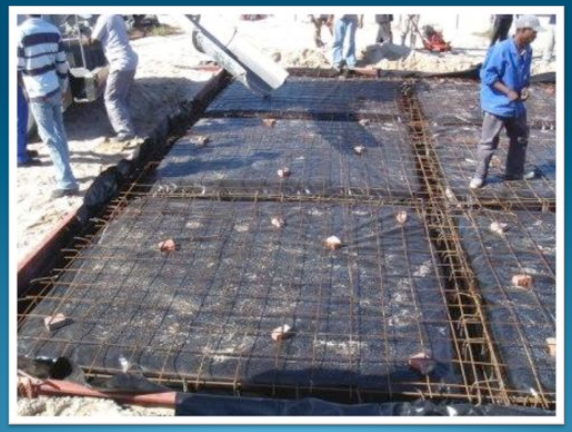
RAFT FOUNDATION-REINFORCING



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RAFT FOUNDATION-CONCRETE

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RAFT FOUNDATION-LEVEL

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POWER FLOAT SLAB

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ERECT FORMWORK

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ERECT FORMWORK

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PLUMBING

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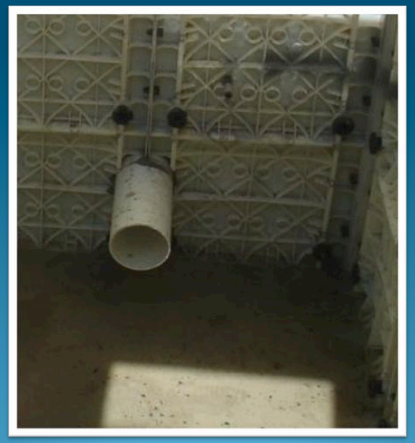
PLUMBING



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REINFORCING

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REINFORCING

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REINFORCING

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ERECT FORMWORK

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ERECT FORMWORK

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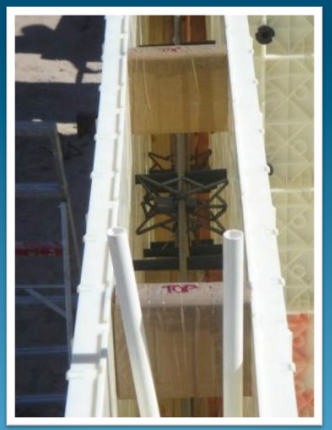
FORMWORK ERECTED



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FORMWORK ERECTED

FOUR HOURS

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FILL

RIVER SAND+CEMENT+WATER+moladiCHEM

TWO HOURS

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FILL

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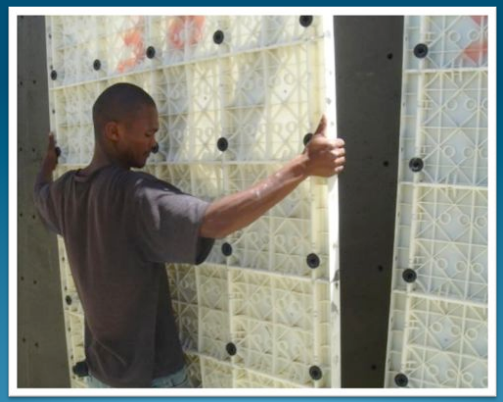
STRIP & RE-ERECT



TWO HOURS

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STRIP & RE-ERECT

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STRIP & RE-ERECT

moladi

STRIP & RE-ERECT

moladi

STRIP & RE-ERECT

moladi

ROOF TRUSS

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ROOF TRUSS

moladi

ROOF TRUSS

moladi

moladi

ROOF

moladi

CEILING

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COMPLETED

FIVE DAYS

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MORTAR – NOT CONCRETE

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40 M²

moladi

40 M²

moladi

52 M²

moladi

60 M²

moladi

68 M²

moladi

75 M²

moladi

87 M²

moladi

110 M²

BONDED BY STANDARD BANK SINCE 1993

Standard Bank

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120 M²

moladi

120 M²

moladi

SEMI DETACHED

moladi

SEMI DETACHED

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WALK UP

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DOUBLE STOREY

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CLINIC

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CLASSROOM

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CLASSROOM

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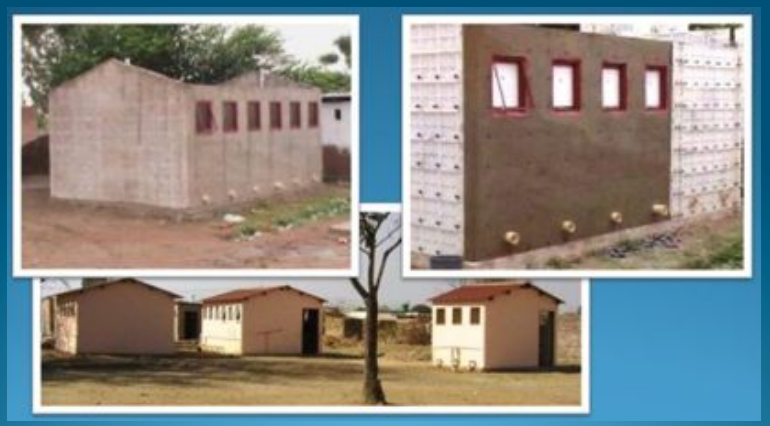
ABLUTION BLOCK



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SECURITY WALLING

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FIRST HOME -1987

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FIRST HOME - 2014

27 YEARS

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FUTURE DEVELOPMENTS

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BENEFITS

- Speed without compromising quality
- No need to plaster
- No need to chase
- No beam filling
- Waterproof
- Reinforced
- No waste
- Logistics
- Alterations and additions

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INNOVATION

Holistic Construction Technology

OFFICES IN 21 COUNRIES

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moladi VILLAGE

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SUSPENDED SLAB SYSTEM

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CONCRETE ROOF TILE

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PAVING BLOCK

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STAIRCASE

LATICE BEAM SYSTEM

LOUVRE WINDOW SYSTEM

THE CHAMPION DRIVER

... needs a champion TEAM

THE CHAMPION TEAM

Sustainable Integrated *Human Settlements*

Teamwork – National-Provincial-Municipal
Land to Stand
Housing Specialist – Special Purpose Vehicle
Architects
Town Planners
Engineers
Project Managers
Contractors
Entrepreneurs
Training
Suppliers - Bulk
Finance
  Project
  End user
Alternative Energy
Green
Recycle

… needs a champion DRIVER

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ONE STOP HOUSING SHOP

Due to the neglect of the poor and very poor over many decades, the real source of market promise is not the wealthy few in the developing world, or even the emerging middle-income consumers: It is the billions of *aspiring poor* who are joining the market economy for the first time.

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SOCIAL INNOVATION

A definition of social innovation

"We contend that social innovation is the best construct for understanding and producing lasting social change. We redefine social innovation to mean: A novel solution to a social problem that is more effective, efficient, sustainable or just than existing solutions and for which the value created accrues primarily to society as a whole rather than private individuals."

Source: *Phills, Deiglmeier, and Miller (2008)*

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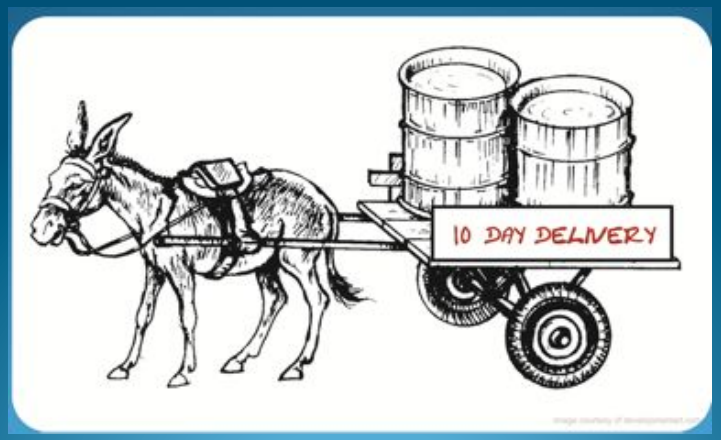
CONCLUSION – STATUS QUO



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SUPERFICIAL CHANGE

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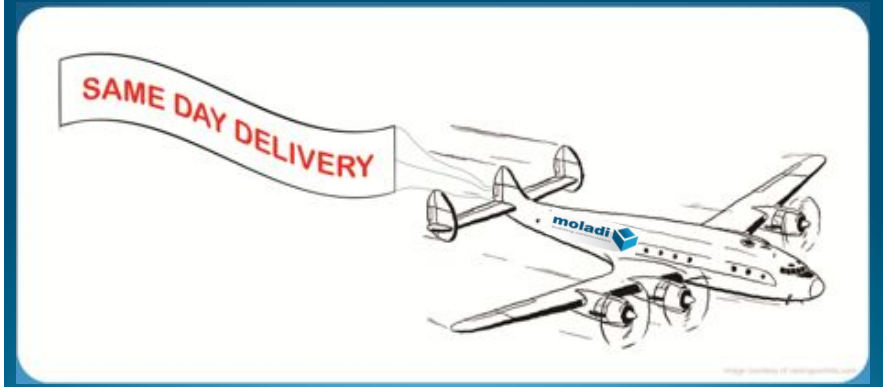
RADICAL CHANGE



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RADICAL CHANGE

OLD

NEW

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CRITERIA

- SOCIAL ACCEPTANCE ✓
- AFFORDABILITY ✓
- EMPLOYMENT ✓

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THANK YOU

Fight poverty, unemployment and crime through housing

Hennie Botes – www.moladi.net