

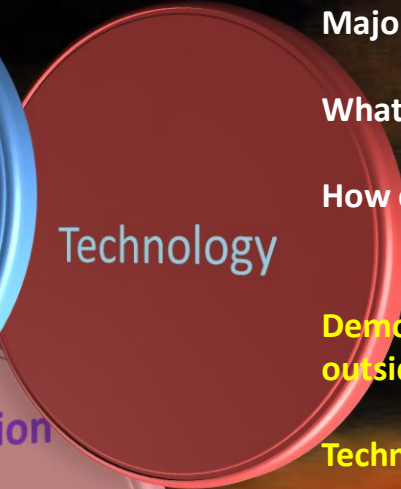


Social housing in the 4th Industrial Revolution

Next generation thinking
#CX2019Strategy

BECAUSE HOMES MATTER

The world around us: 3 enduring global mega-trends



Major forces at work:

What impact do they have on their own?

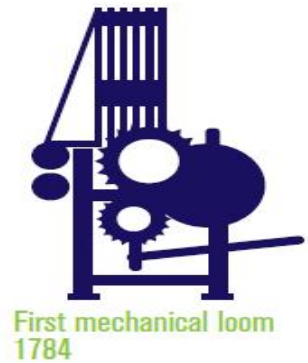
How do they inter-connect?

Demographics and Globalisation are outside our control

Technology isn't

So.....

...how can technology be harnessed for good - so all citizens and communities can thrive, not just survive?



First mechanical loom
1784

1. industrial revolution
follows introduction of
water- and steam-powered
mechanical manufacturing
facilities

End of
18th century



First production line,
Cincinnati slaughterhouses
1870

2. industrial revolution
follows introduction of
electrically-powered mass
production based on the
division of labour

Start of
20th century



First programmable logic controller
(PLC), Modicon 084
1969

3. industrial revolution
uses electronics and IT to
achieve further automation
of manufacturing

Start of 1970s



4. industrial revolution
based on Cyber-Physical
Systems

today

time

complexity

Intelligent



Autonomous Things



Augmented Analytics



AI-Driven Development

Digital



Digital Twin



Empowered Edge



Immersive Experience

Mesh



Blockchain



Smart Spaces



Privacy and Ethics



Quantum Computing

Priority technologies: Gartner 2019

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Watch:

Immersive experience (VR), autonomous things (drones, cars etc)

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Autonomous Things



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Watch:

Immersive experience (VR), autonomous things (drones, cars etc)

Too techy for now:

Empowered edge, quantum computing



WHATEVER HAPPENS...

IN 10 YEARS TIME....

DIGITAL MUST BE IN OUR **DNA**

The challenges

- Compared with the best, the customer thinks we are
 - Providing homes and services of variable quality
 - Cutting our costs to serve, while increasing their cost to live
 - Reactive – solving issues “when reported” rather than solving them so they don’t have to be
 - Not giving them much choice
 - Not transparent

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 - Not giving them much choice
 - Not transparent
- While inside the organisation
 - We see need increasing with ageing and vulnerable residents increasingly unsupported
 - We have staff performing routine tasks that could be automated
 - We have fragmented and incomplete data
 - We make decisions and have governance processes which are largely analogue
 - We haven’t been getting our workforce “digitally fit” for the future

What we build

Principle:
still relevant in a post-singularity world

- Modern materials replace “bricks and mortar”
- Homes built for sustainability : energy!
- Flexible and adaptable
- Is it a home, or a computer we live in?

Homes, but not as we know them

How we serve

Principle:

our reduced cost to serve drives customer's reduced cost to live

- Ubiquitous data drives radical transparency
- Blockchain blurs the line between ownership and rental
- Connected – “anything anywhere” public services
- Predict not react
- Serving the “long tail”

Better : Faster : Lower cost

How we organise ourselves

Principle :

A digital business that has some houses

- Digitally dexterous organisation
- Ethical framework
- Natural collaborator
- Continuous innovation
- Digital leadership

Digital in our DNA

Within 10 years....



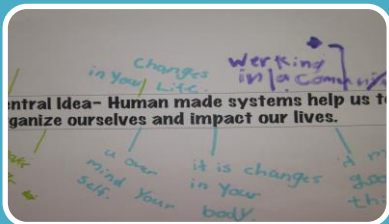
How we build and maintain

- Full digital models of all properties on all estates
- All homes linked to “Smart City” services
- All homes energy positive and carbon zero
- Customer choice drives what we build



How we serve

- Wider range of products and services
- Automated and always on experience for customers
- Trusted for relentless delivery of high quality
- Loyalty to brand from “customers for life”



How we organise

- Digitally dexterous workforce and customer base
- Real time data drives decisions
- “think / do” leadership continues to drive innovation
- Artificial Intelligence is present to assist decisions in the Boardroom