Giving leaders the skills to unlock digital change

27 March 2019

Digital construction

What is digital?

New technologies delivering new ways to manage, use and visualise information

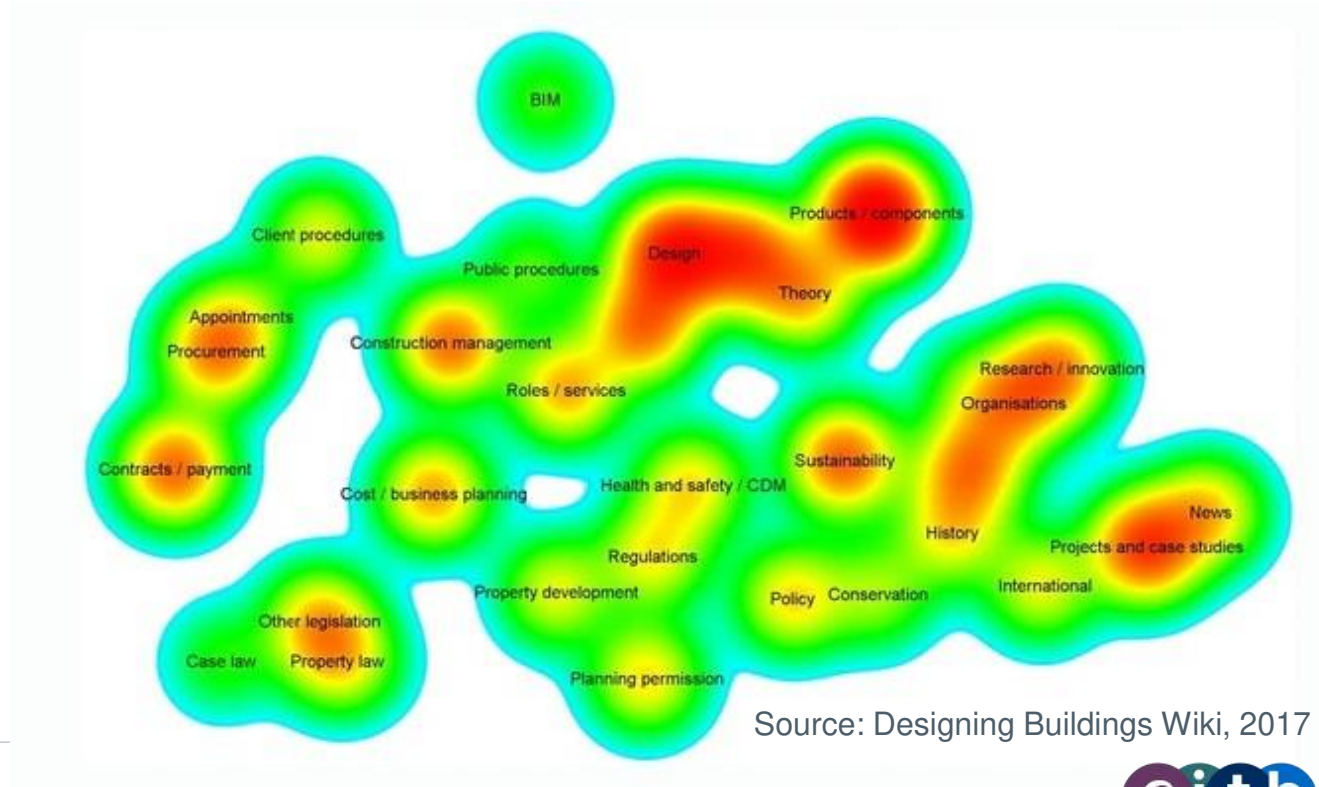| Virtual and augmented reality	Mobile devices and tablets	Drones, automated vehicles	5g network, internet of things
AI, machine learning	Building information modelling	Cloud computing	Blockchain

Why is construction behind the pack?

- Fragmentation

- Low margins

- Risk averse

- Image problem

- Aging workforce

Source: Designing Buildings Wiki, 2017

Why do we need to change at all?

- Disruptors stealing market

- Out-performed by competition

- House-building crisis

- Productivity crisis

- Resilience for the future

Digital skills

Digital skills

Soft skills and technical know-how

citb

FLEXIBLE MINDSET
- Curiosity
- Problem solving
- Creativity
- Emotional intelligence
- Communication

UNDERSTANDING TOOLS & DATA

- How tech works
- What's available
- How data supports
- Collecting, storing, sharing, using data

INDUSTRY

Seeks out improvements, makes them happen

Considers alternatives

Do what they're told
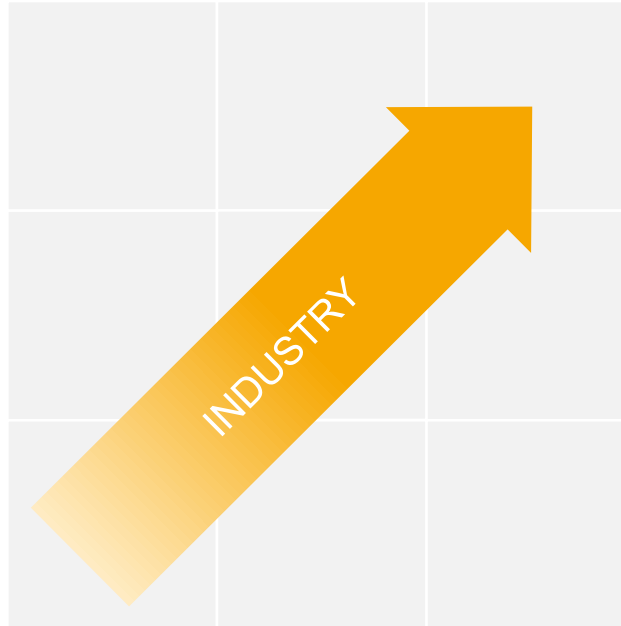
Uses what they have

Know what's available

Solve problems & implement change

Digital skills

Soft skills and technical know-how

FLEXIBLE MINDSET

- Curiosity
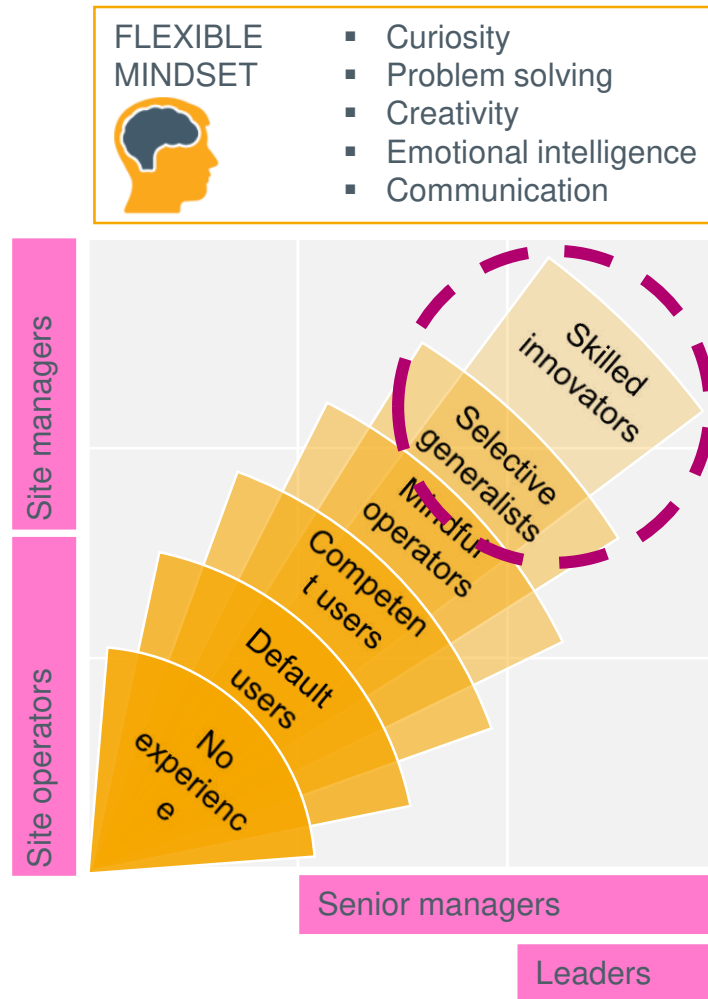- Problem solving
- Creativity
- Emotional intelligence
- Communication

citb

UNDERSTANDING TOOLS & DATA

- How tech works
- What's available
- How data supports
- Collecting, storing, sharing, using data

Site managers

Site operators

Skilled innovators

Selective generalists

Mindful operators

Competent users

Default users

No experience

Senior managers

Leaders

Digital skills

SOPHISTICATION IN APPLICATION ↑

Finding & using digital tools to help solve problems

Investing in new tech to pioneer in a specific application

Buying new technology that feels exciting, unclear how to use it

Digital skills

Dispersed work-force, fragmented supply chains

Cloud based collaborative platforms Office 365 or Google G Suite

Productivity: errors, defects, quality, lost time

Apps to log work, errors & defects that update a cloud-based project plan

Access to hazardous / remote environments

Drone imagery using AI to stitch a 3D model, compare BIM models and the environment

CITB's approach

Unlocking digital skills for construction

1. 'Equipping organisational leaders to deliver digital change' a commission launching 23 April 2019, with a value of £1,000,000.

2. 'Digital Competency Framework' a procurement exercise launching in June 2019, value to be confirmed.

3. 'Digital upskilling through new resources and capability' a commission launching in Q2 2020, value to be confirmed.

Giving organisational leaders skills to deliver digital change

"People in leadership roles need to be able to identify opportunities to innovate and unlock digital change in their organisations."

- £1,000,000 available funding

- Projects that test and pilot approaches

- Connecting industry with digital experts

- Open to range of proposals, small to large

Giving organisational leaders skills to deliver digital change

We want people to lead projects

- Employers who have implemented (any) digital

- Digital experts sector who can deliver change
    - From construction
    - From pharmaceuticals / health
    - From IT and software development
    - From the third sector, government, innovation

We want people to just get involved

- Any employer ready to embrace digital change

- With problems that can benefit from digital solutions
    - Quality
    - Productivity
    - Process
    - Logistics

Equipping organisational leaders to deliver digital change

23 April — **Expressions of interest OPEN**

Collaboration support

MAY

Webinars: 30 April, 2 May
Workshops: 20 > 31 May

18 June — **Expressions of interest CLOSED**

2 July — **Application deadline**

Projects start — **Sept**