



Total Flow
We're all about the people.

Offsite DfMA Landscape

Tim Hall – Total Flow

Keith Waller – Transforming Construction Alliance

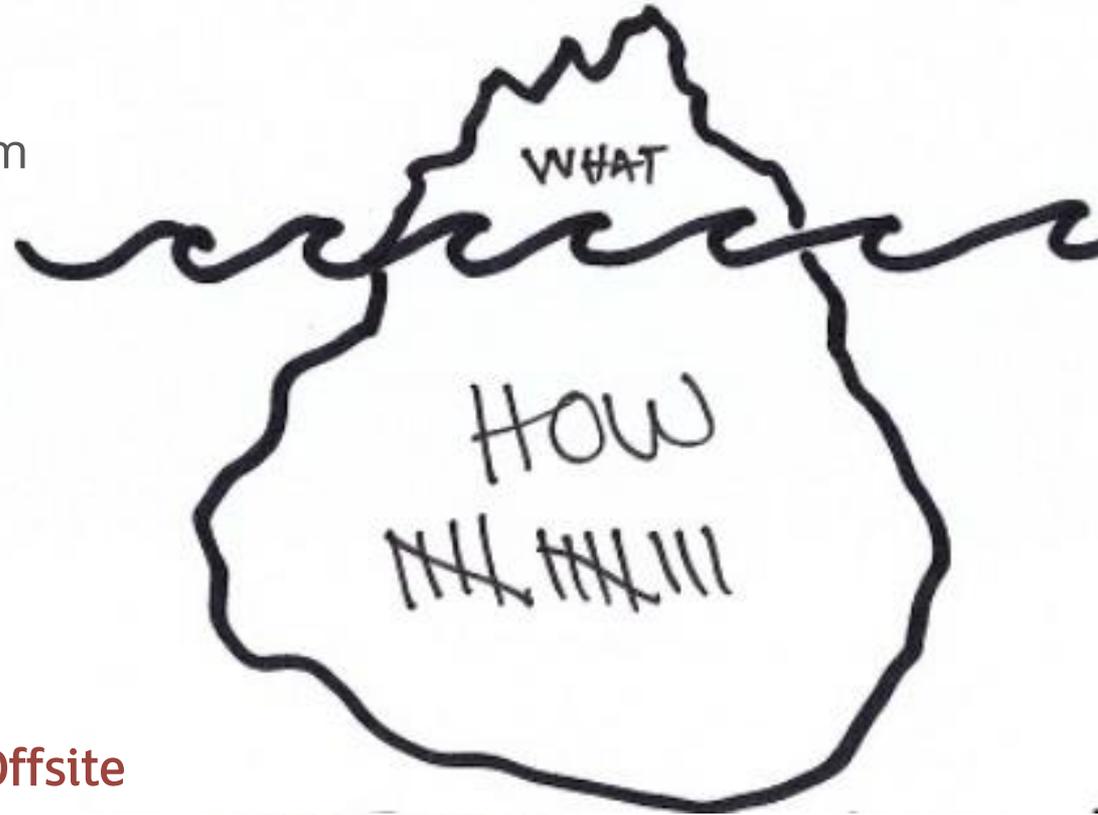
Transforming Construction

- Construction 2025 ambition
- We've articulated the problem
- Set the supporting policy
- Industry leadership

Now we work out how:

- Engaging
- Encouraging
- Enabling

**Presumption in Favour of Offsite
Time to Collaborate and Deliver**





Align,
transform,
or get out
of the way.

Andy Mitchel,
CLC co-Chair, 2018



Offsite solutions

The basic principle of Offsite thinking is to:

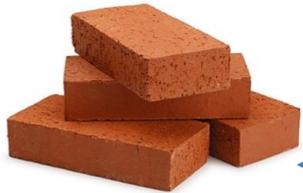
- Remove activity from an environment where it is difficult to control quality, cost, labour and safety
- To a factory where the process can be stabilised to create repeatable standard operations which are optimised over time





Offsite is a spectrum

- It's not all about volumetric modules
- Offsite works well for repeatable elements
- The same thinking applies to infrastructure
- Projects are likely to blend on/offsite solutions
- Offsite does not work as an afterthought





Offsite is Not a Binary Choice

Traditional

Offsite

Bespoke

Standardised

Manual

Automated

Cheaper

Faster

Flexible

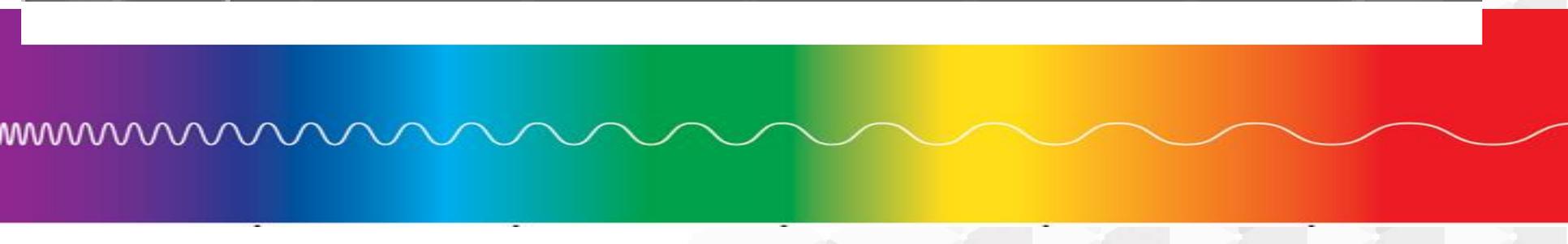
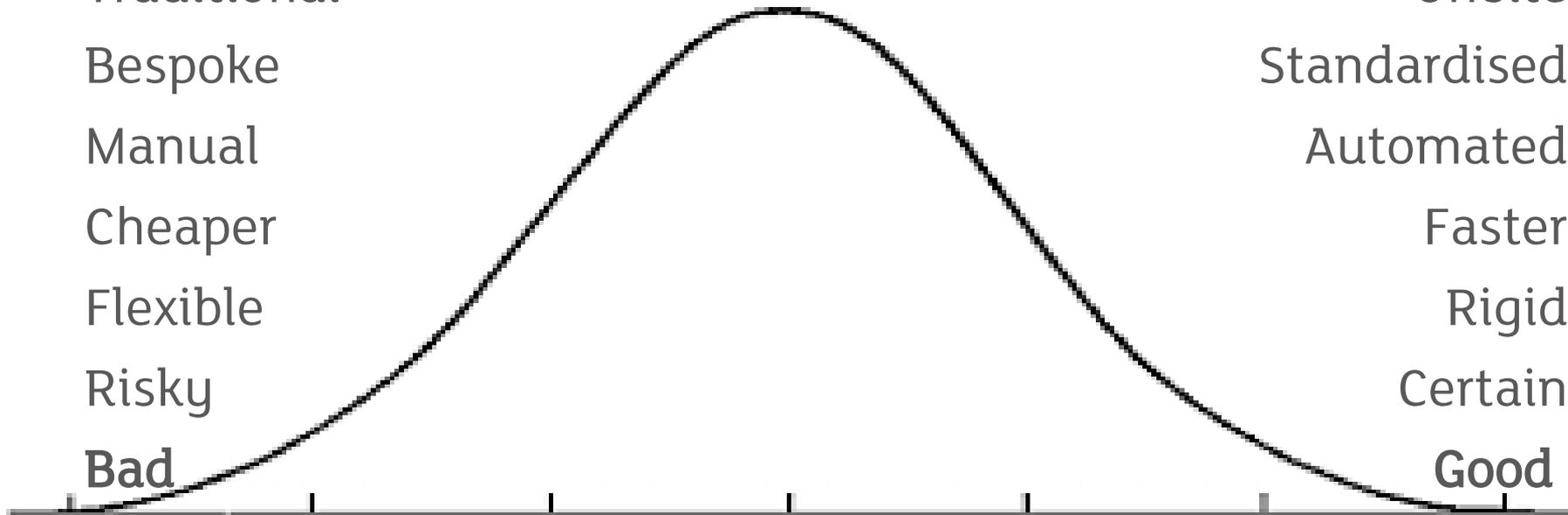
Rigid

Risky

Certain

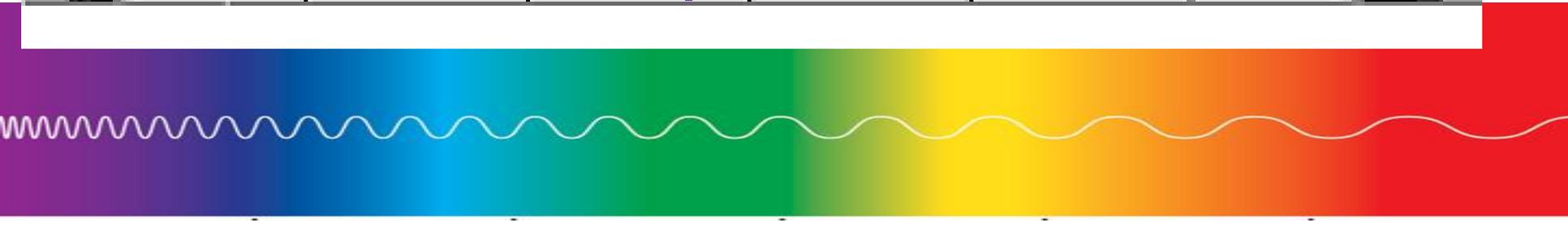
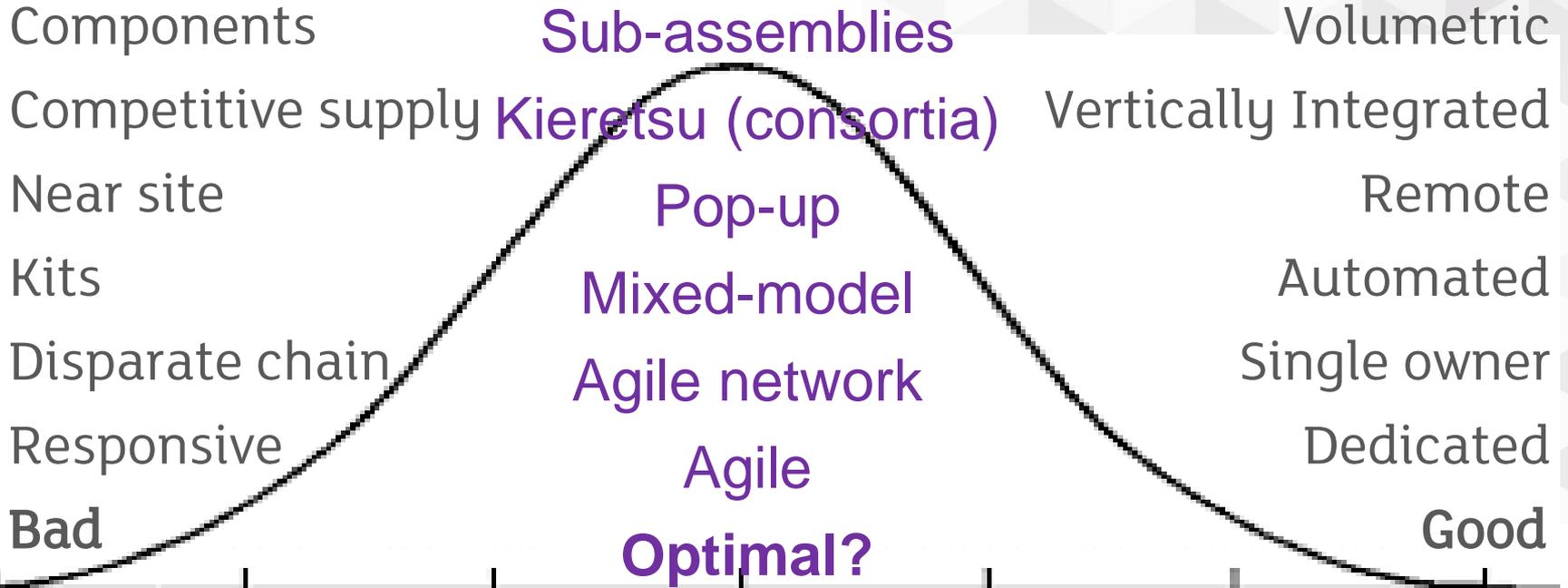
Bad

Good





Manufacturing is Not a Binary Choice





Perceptions of Offsite



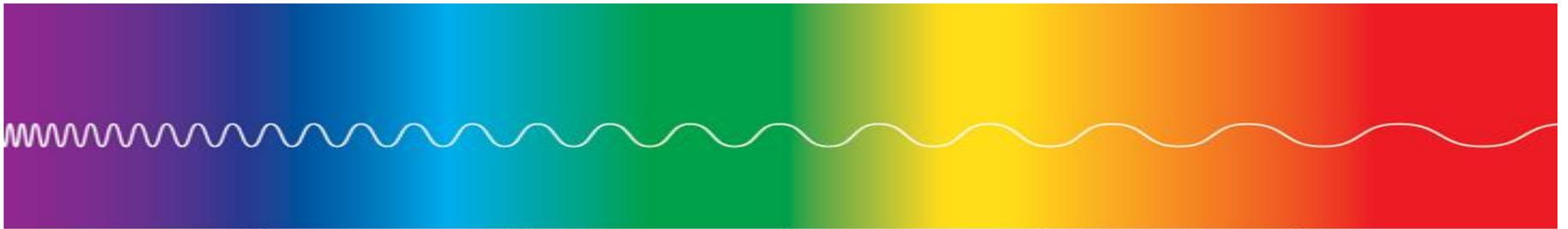
Too
Difficult,
Confusing
and Risky

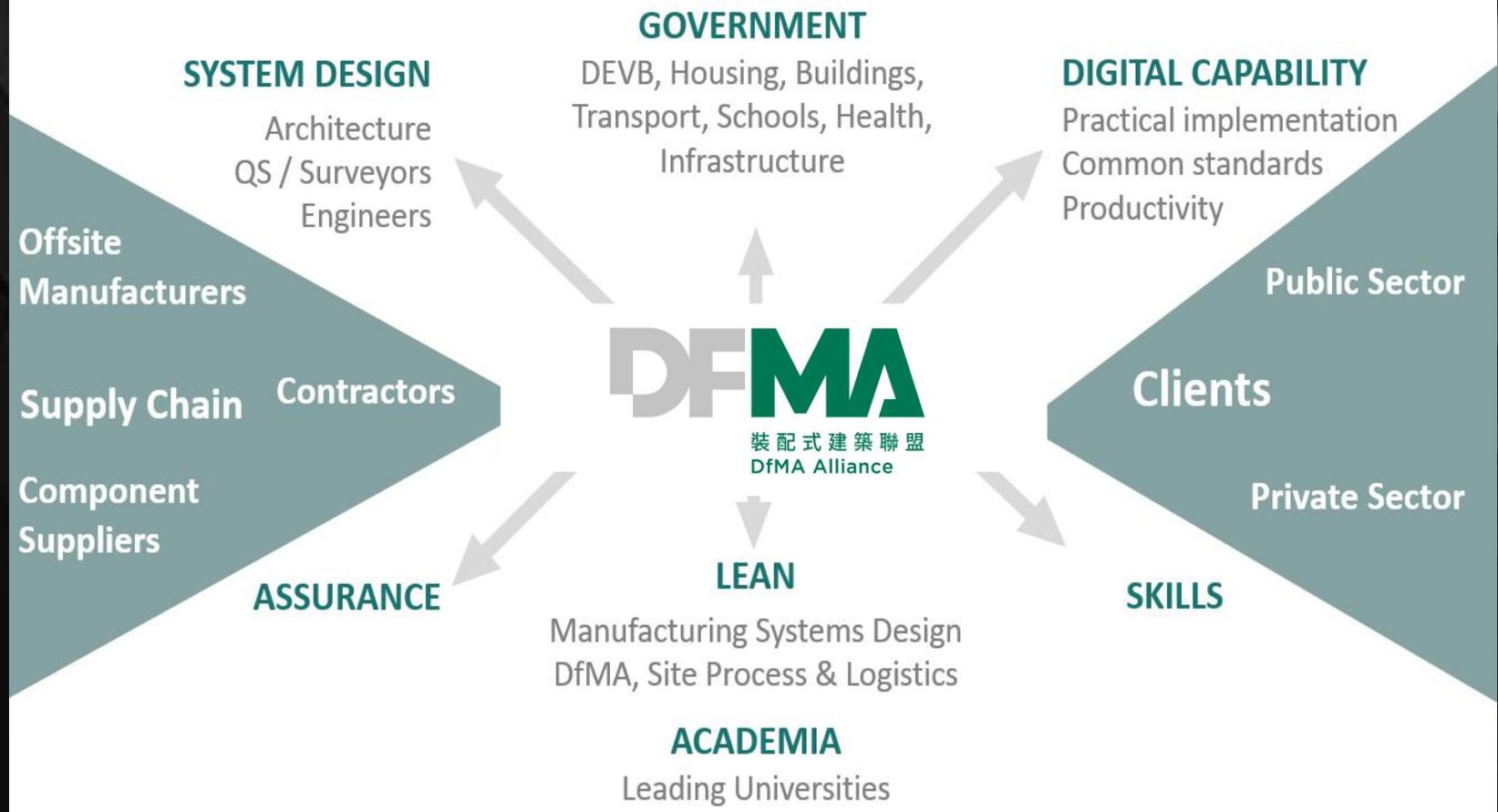


Investment - another spectrum

- Major Investors – Large Scale
- Existing Players – Scale-up
- Entrepreneurial – Start-up

- Credible Capability is Crucial for Success
- Collaborate:
 - Construction and Manufacturing
 - Design and Delivery
 - Clients and Consultants





What Next



Total Flow
We're all about the people.

Everyone with an interest in the Built Environment should look to change

- 01** Engage & Enlighten Clients
- 02** Clarify the Desired Outcomes
- 03** Align Across the Value Chain
- 04** Challenge the Supply Chain
- 05** Repeat & Improve





Total Flow
We're all about the people.

DFMA

装配式建築聯盟
DfMA Alliance

Thank You