

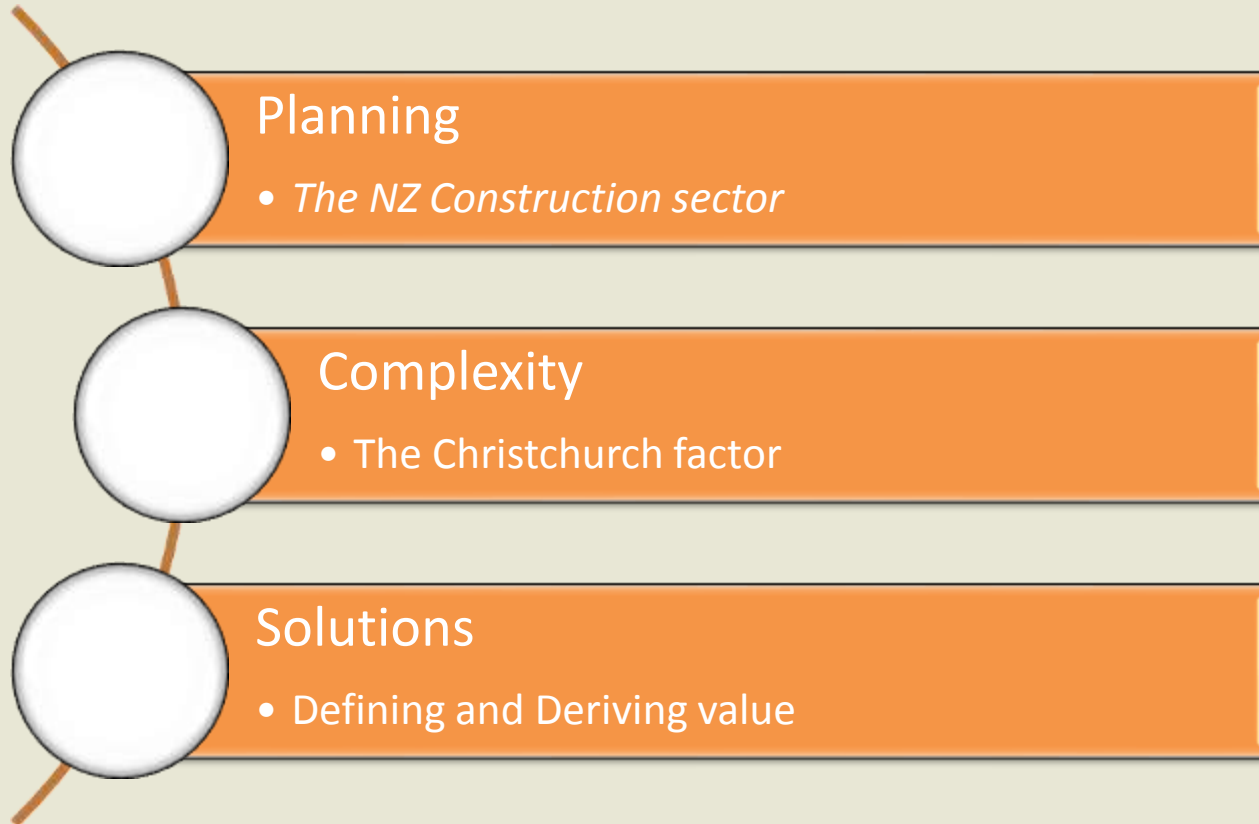
The Christchurch Recovery Planning - Implementation



THE BEGINNING



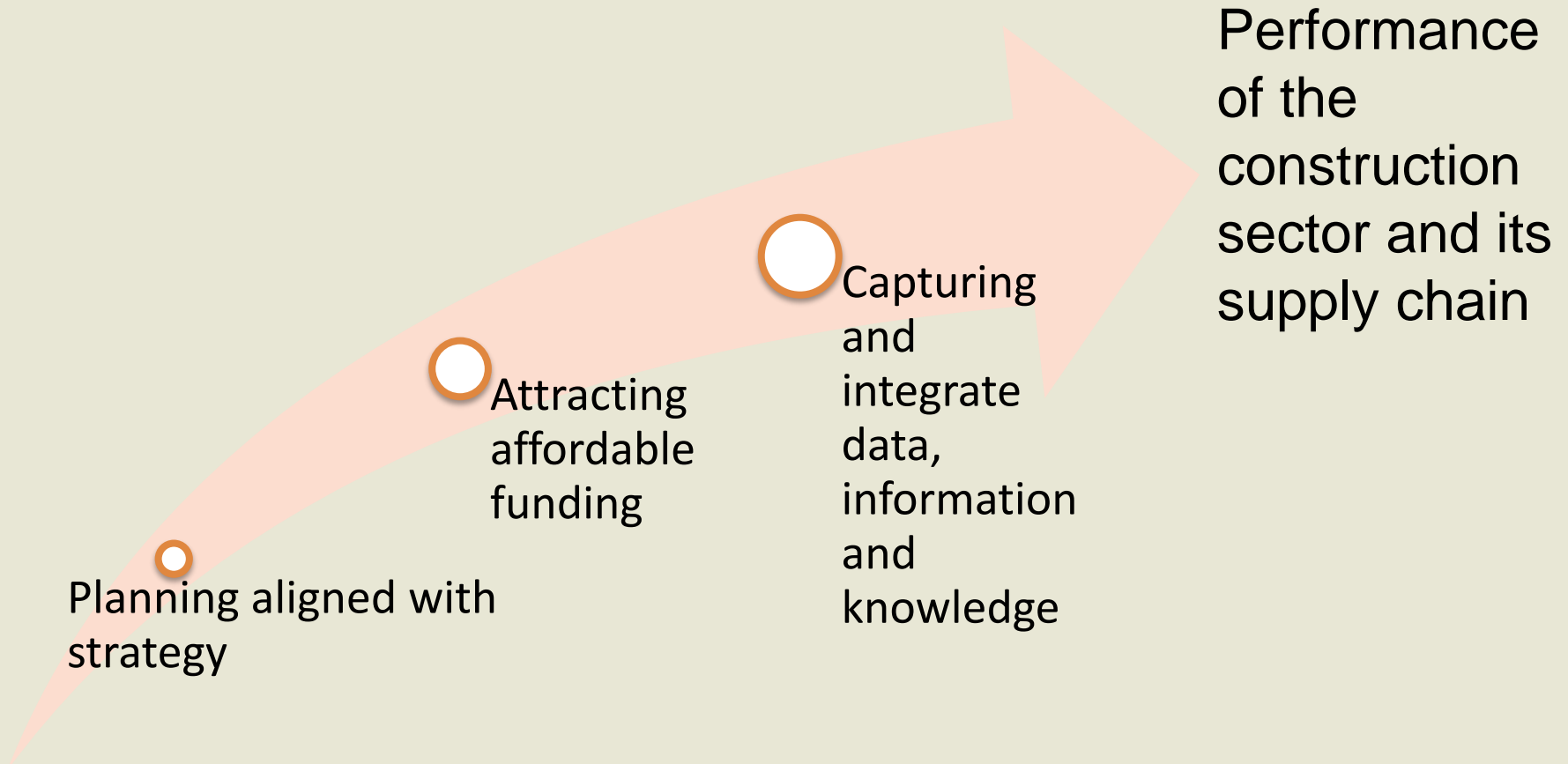
OVERVIEW



DISASTER RECOVERY



IMPLEMENTATION



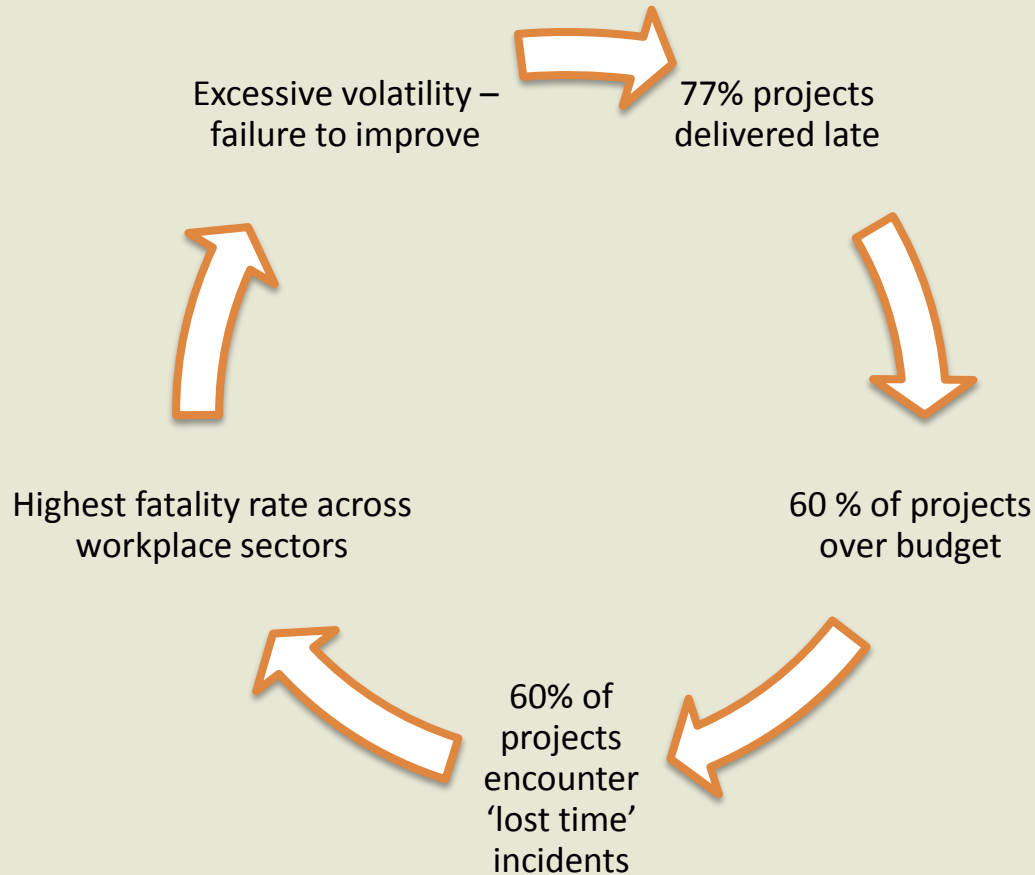
THE 'SHADOW' OF IMPLEMENTATION

*“Between the idea
and the reality....
between the conception
and the creation.....
falls the shadow.”*

*T.S. Eliot
The Hollow Men*

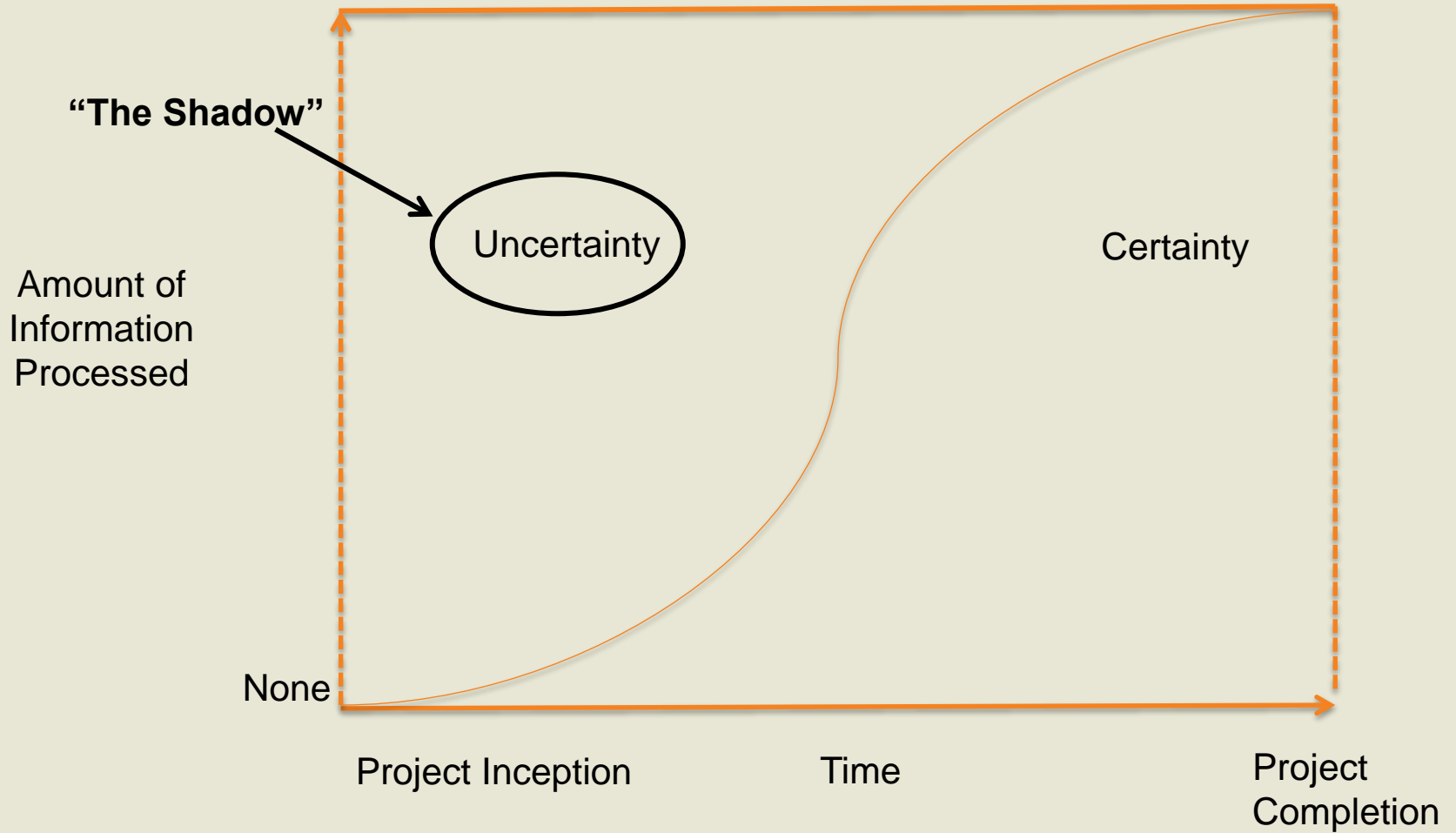


A LARGE SHADOW



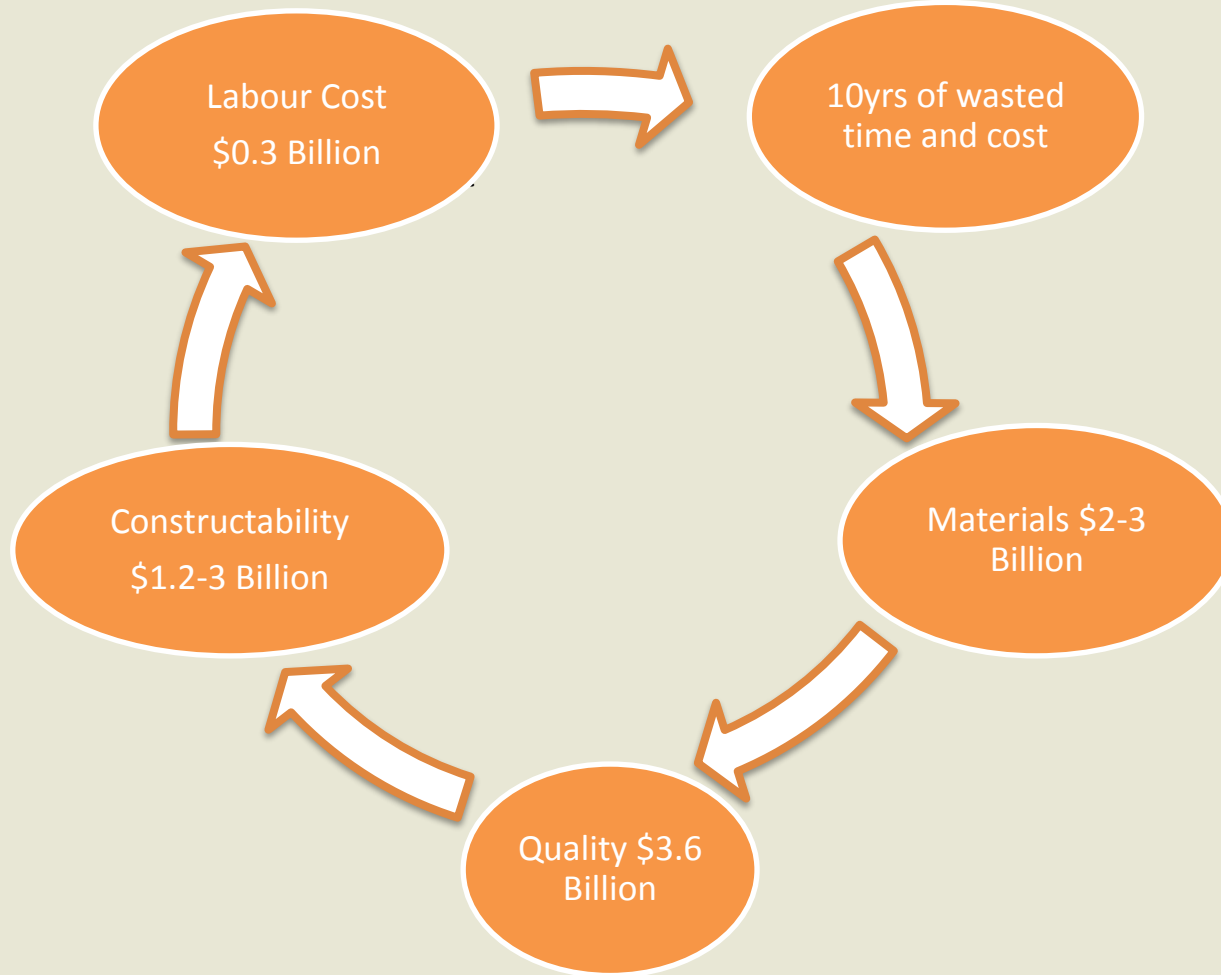
Construction in the New Zealand economy, Report to the Construction Strategy Group – PWC October 2011; New Zealand Construction Industry Vision 2025, Initial Research Report – Constructing Excellence in New Zealand – June 2008; Construction Sector Action Plan 2010 – 2013. Department of Labour

ROOT CAUSE - UNCERTAINTY

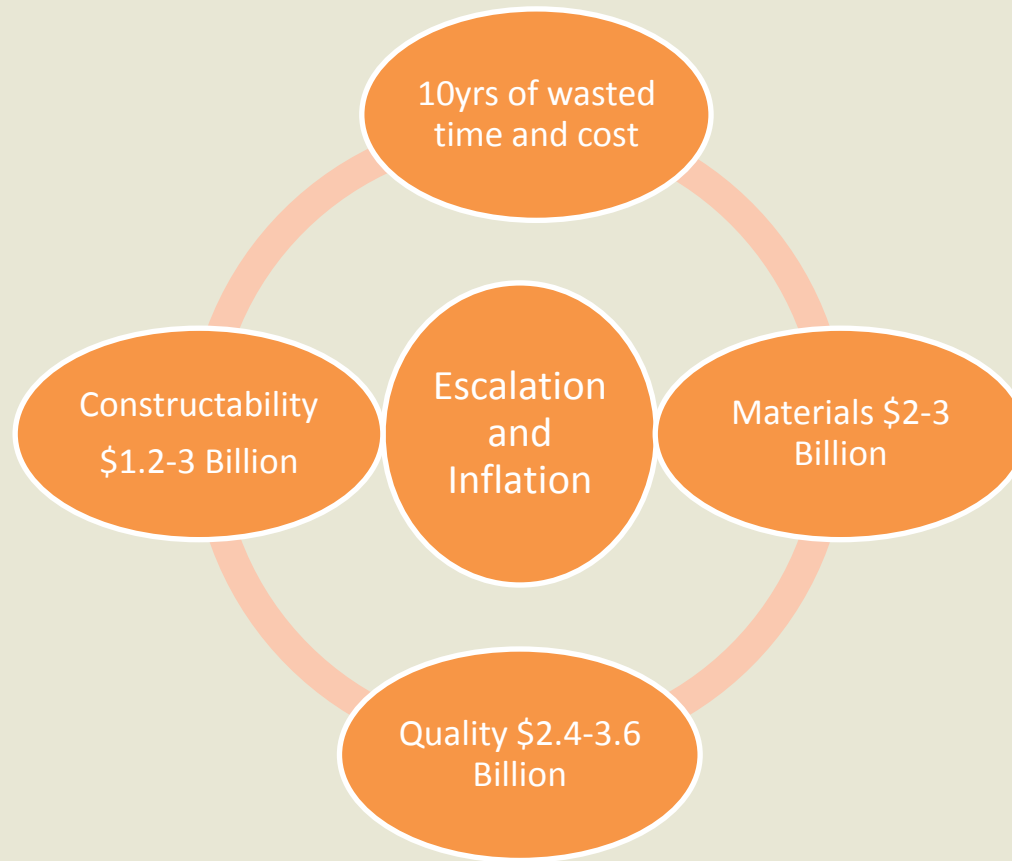


THE SHADOW COMPOUNDED

The Christchurch rebuild \$30bn over a 20 year period?



THE RESULT



Application of the New Production Philosophy to Construction – 1992 Koskela, Stanford University

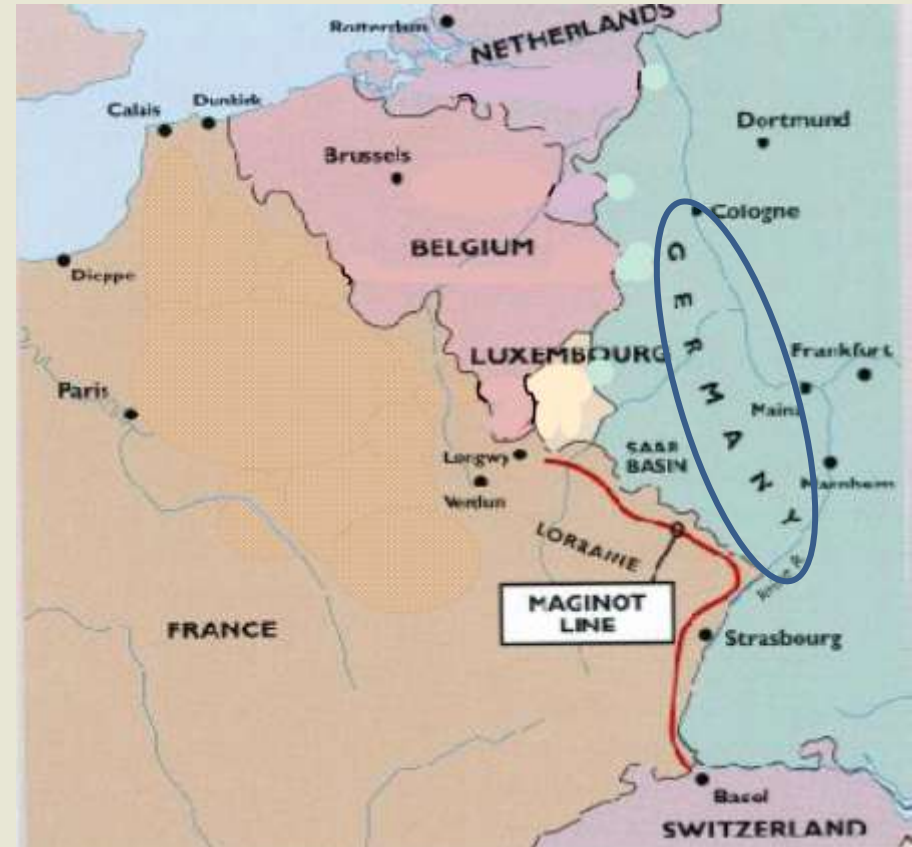
DOES THIS MATTER?



BAU = ASSUMPTIONS = FAILURE

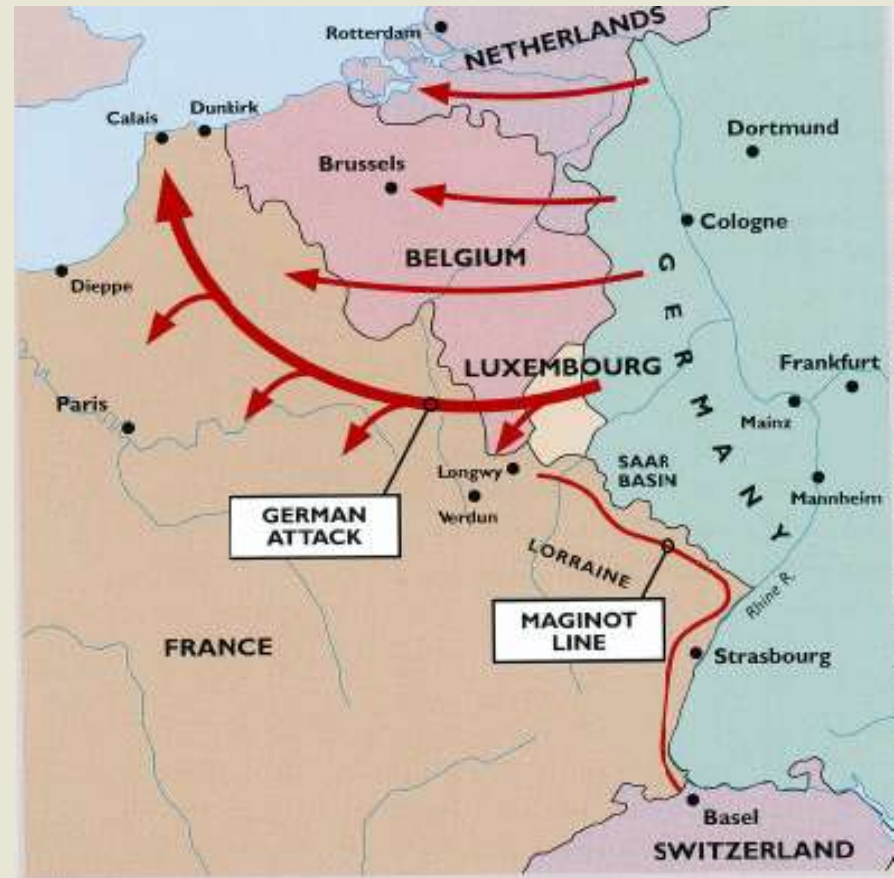
Maginot Line – built to defend France from threat of German invasion prior to World War II.

Assumed a direct assault along the German/French boundary.



BAU DOESN'T ADAPT TO CHANGES

On May 10 1940, Germany bypassed the Maginot Line via Luxembourg and Belgium to attack France



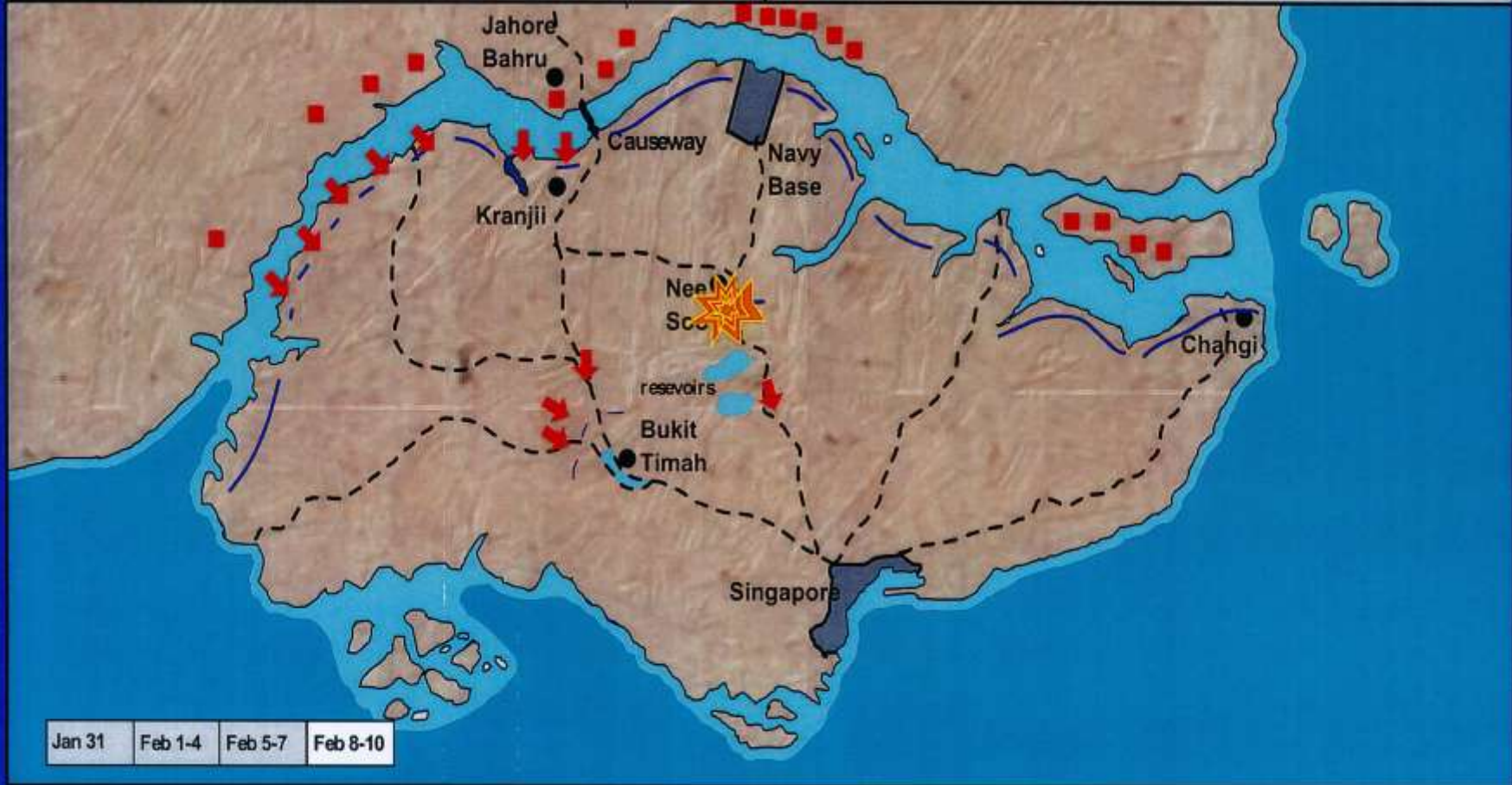
WE KEEP MAKING SAME MISTAKES

Singapore – December 1941 – the cornerstone of the British Empire in South-east Asia



Aware of Japanese threat – Singapore built strong fortifications along southern coast to protect island from attack from sea. **Assumed** attack through the Malay Jungle impossible

AVOID ASSUMPTIONS – MAKE INFORMED DECISIONS



THE PLAYERS

PUBLIC GROUPS

CERA, CDU, ECAN, CCC,
NZTA
Cabinet, DBH, Royal
Commission,
Selwyn/Waimakiriri, Nagai
Tahu, EQC, CCDU & Other
Government Departments

PRIVATE GROUPS

Private land owners, CBLG,
Residents & Res. Groups,
Recover Canterbury, CDHB,
Chamber of Commerce,
Main industries,
Manufacturing, CCBA &
Developers.

INSURANCE / FINANCIERS

Reinsurers, Insurance
Council, Finance
Companies, Banks,
Insurers, Loss Adjusters.

CONSTRUCTION & SUPPLY CHAIN

Contractors, Architects,
Transport Logistics, MEP,
Concrete/Steel/Timber
Industries, HR, Geotech
Assessments, Engineers &
Specialist Equipment.

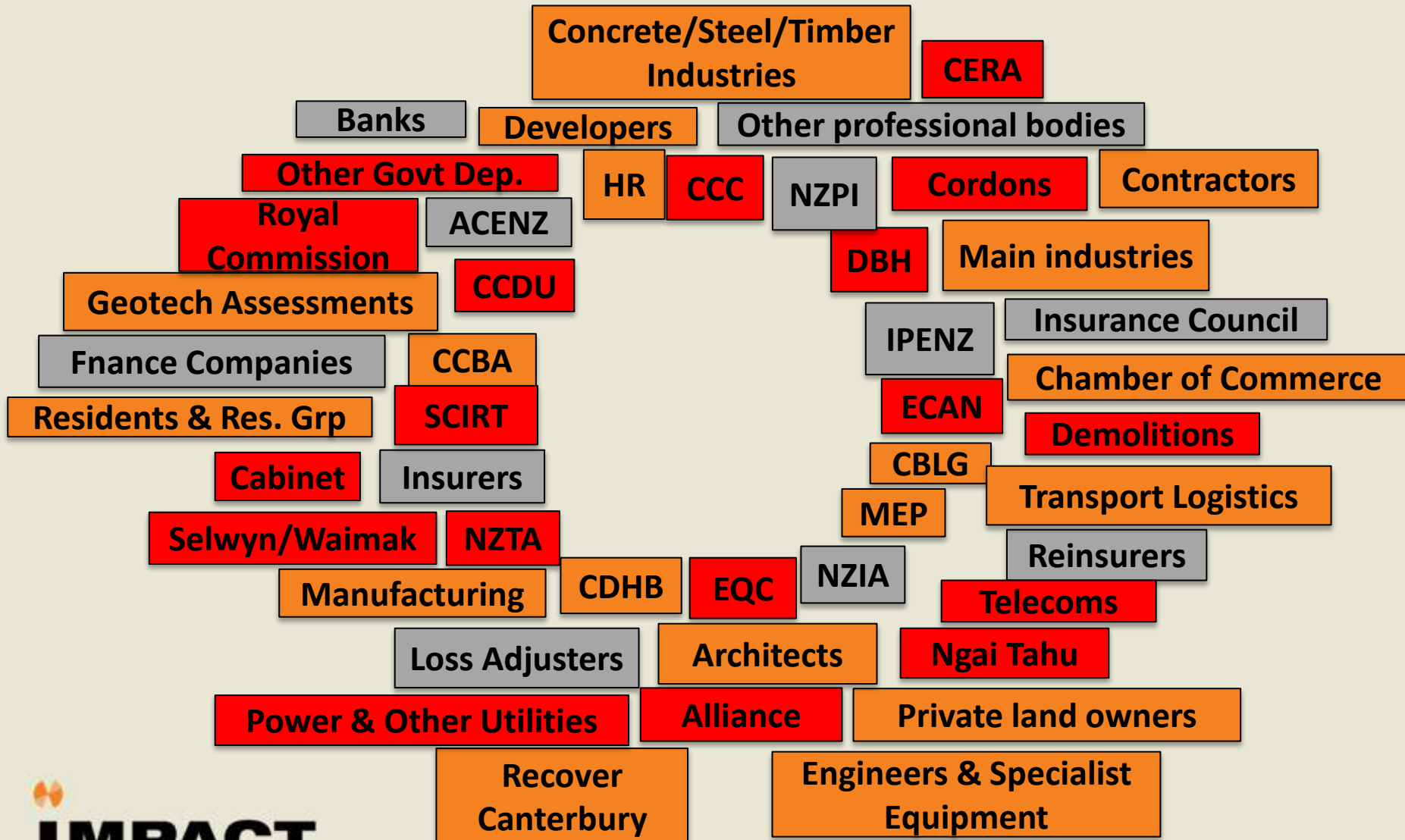
PROFESSIONAL GROUPS

ACENZ, NZIA, NZPI, IPENZ
& Other professional
bodies.

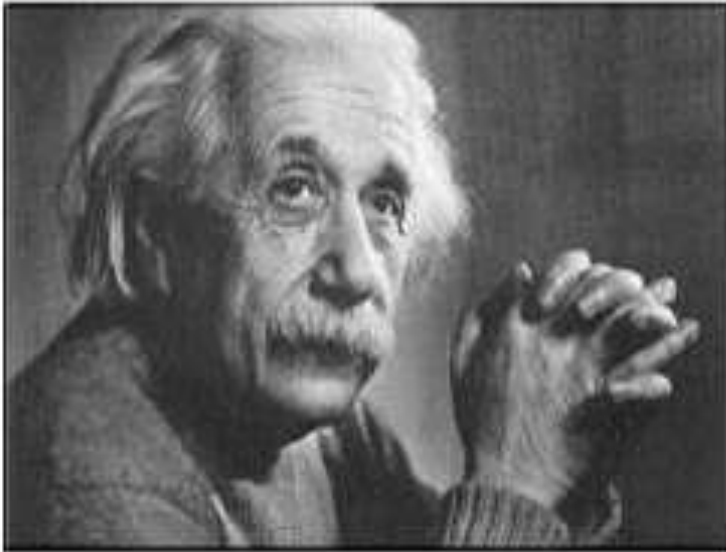
UTILITIES/ INFRASTRUCTURE GROUPS

Demolitions, SCIRT,
Cordons, Alliance,
Telecoms, Power & Other
Utilities.

CHRISTCHURCH REBUILD - COMPLEX



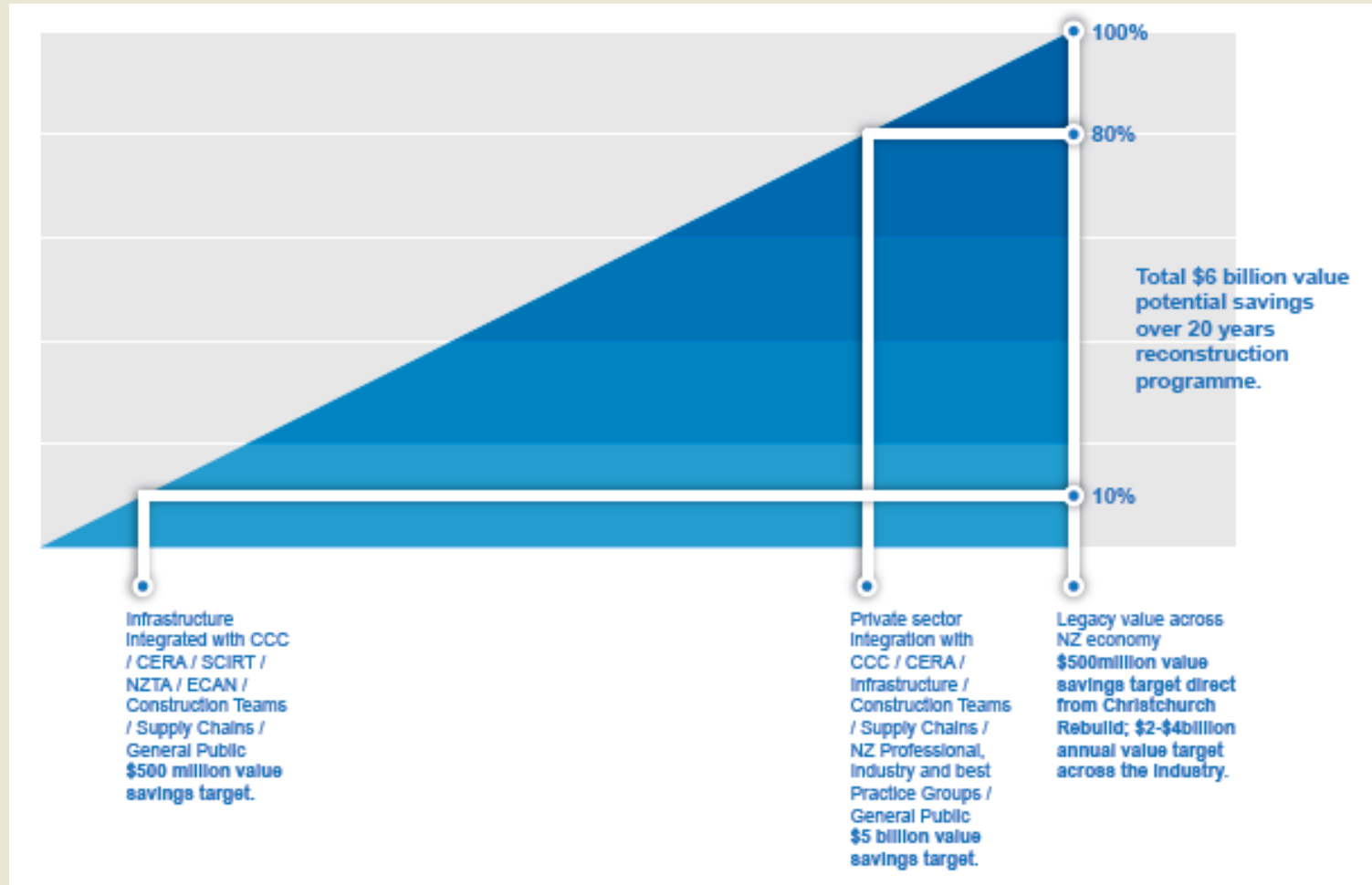
INTEGRATE, COMMUNICATE, FORECAST



“If I can visualize it,
I can understand it.”

Albert Einstein

VALUE REALISATION



CHRISTCHURCH SOLUTIONS

Safety logistics as the city operates a vast construction programme at the same time is open to general public

Ensuring construction works are undertaken efficiently, effectively and collaboratively to create value to clients, investors, the construction and supply chain industries and legacy benefits for the New Zealand economy

The above – coupled with a balanced commercial approach will allow the visions espoused in the recovery plans to be realised.