



RESPONSIBLE CONSUMPTION & PRODUCTION

SOLVING THE SUSTAINABILITY CHALLENGE WITH LEAN THINKING AND PRACTICE

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Chief Scientist - SINTEF, Norway

MOTIP 06

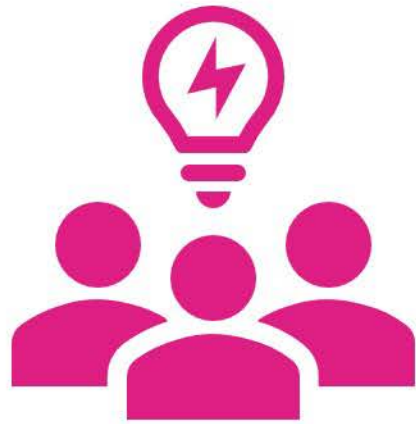
"Our greatest challenge is creating a carbon-neutral society..."



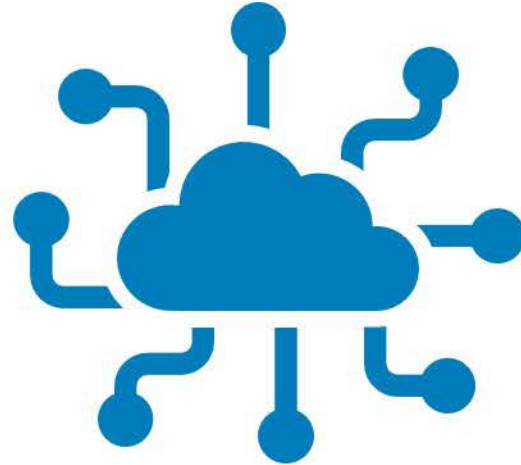
**Toyota
Times**



Digitalization and
Carbon Neutrality Come Into Focus



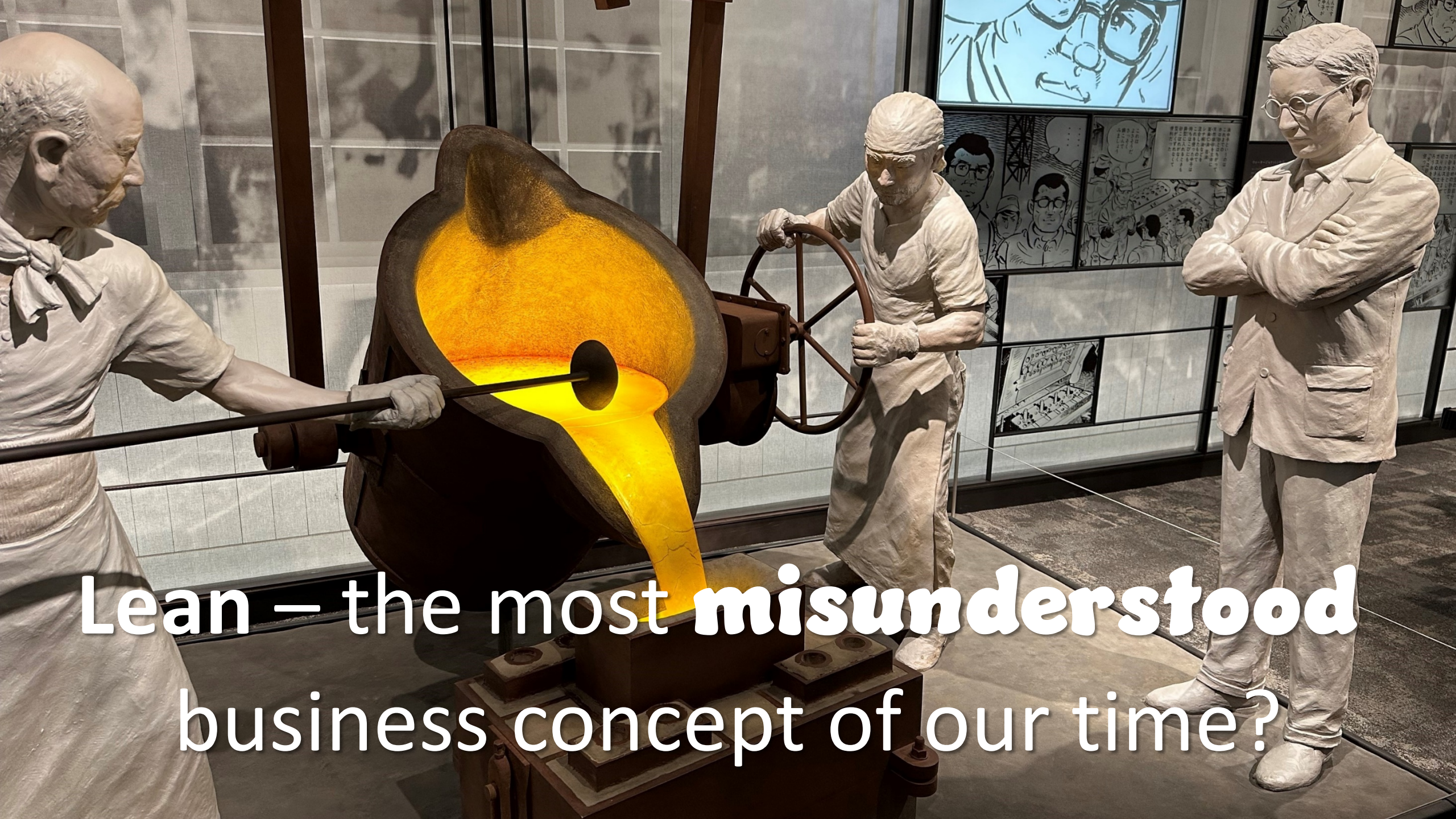
THINK LEAN



USE TECH.*



ACHIEVE THE GOALS!



Lean – the most **misunderstood** business concept of our time?



**THE
LEAN
SENSEI**
Go See Challenge

With an introduction by Daniel Jones

Michael Ballé

Nicolas Chartier

Pascale Coignet

Sandrine Olivencia

Daryl Powell

Eivind Reke

Lean Enterprise Institute



“Learning is at the heart of lean. Indeed, lean is more accurately described as an education system rather than a production system”.

The Lean Pivot...

Lean Management:

Understand problems

Mainstream Management:

Vs. Implement solutions

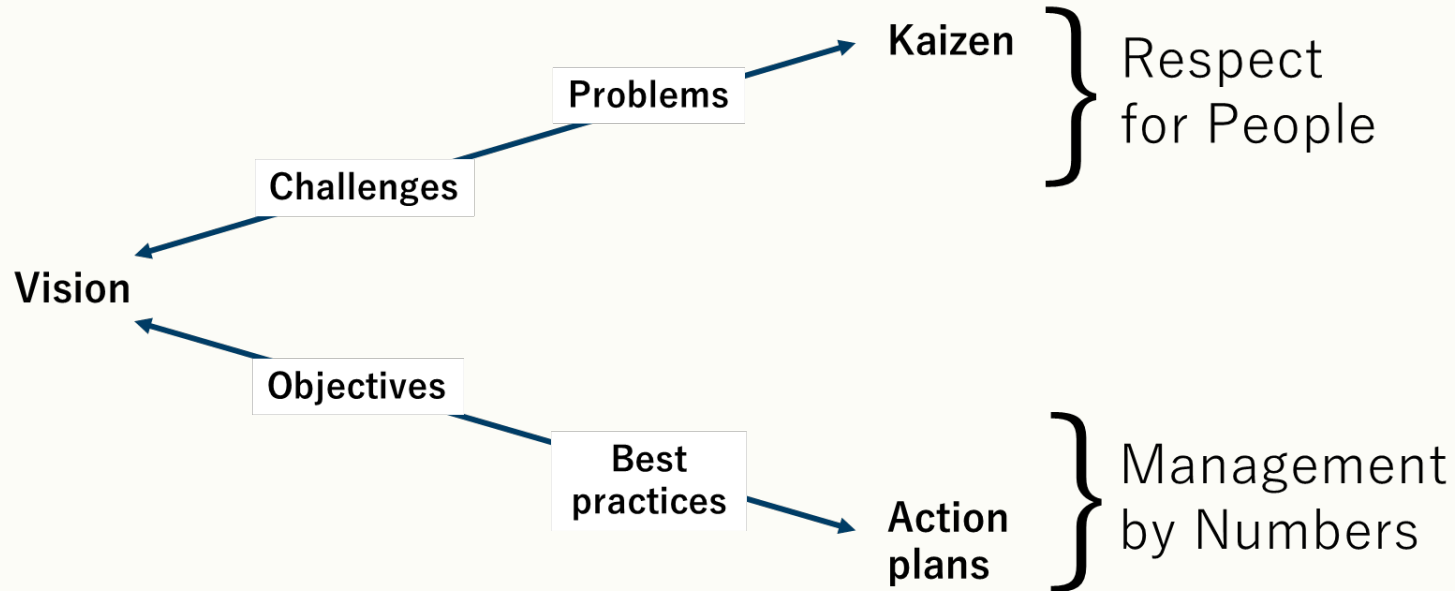


Lean leadership vs. mainstream management



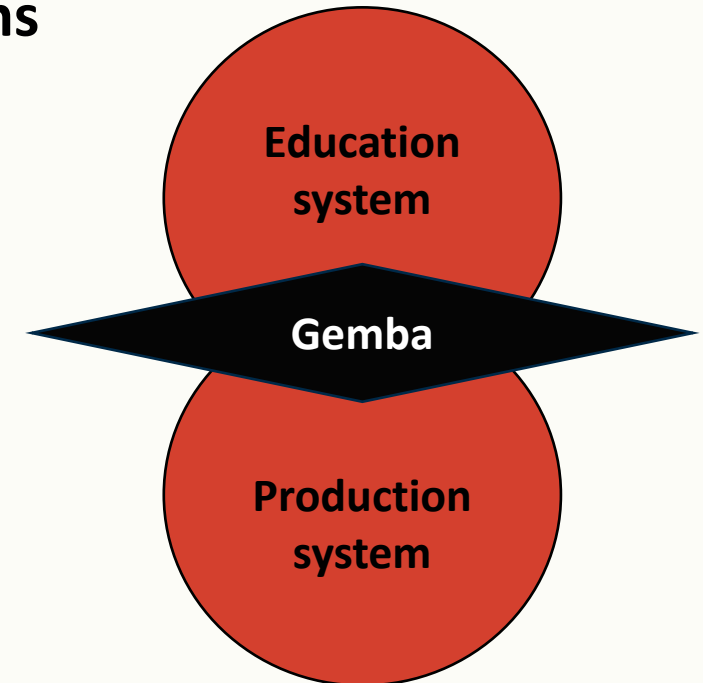
Mainstream	Lean
Sit and debate reports	Seek consensus on challenge(s)
Seek best practices	Go and see @ gemba
Impose solutions	Understand the problems
Formulate action plans	Support experimentation
Control the execution	Share learnings

Lean vs. Mainstream



The Lean Strategy for Sustainable Growth

- Create consensus around the right **challenges** - together with the team
- Develop the right systems - to discover the right **problems**
- Develop people through **kaizen**



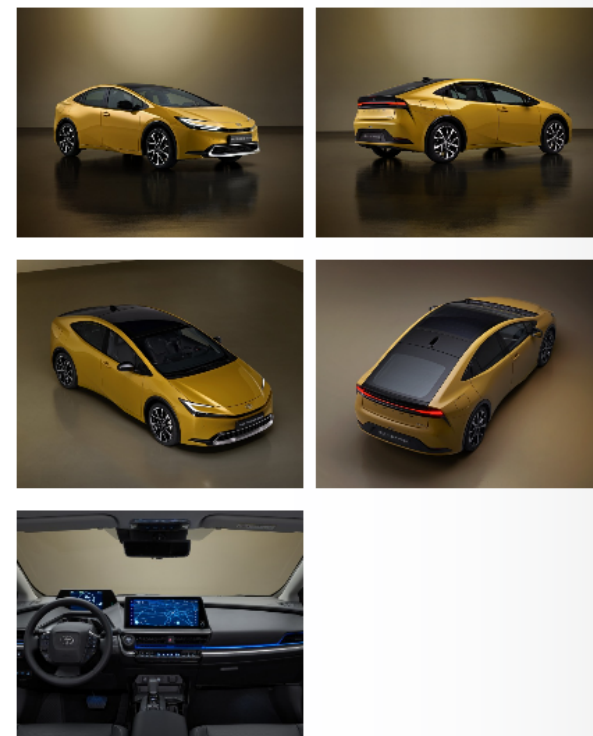
1990年代



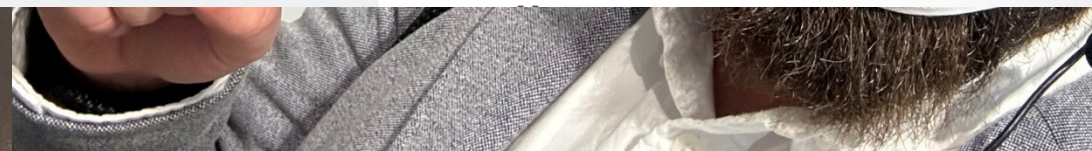
Brussels, Belgium, 16 November 2022

World premiere for fifth-generation Toyota Prius, 100% Plug-in Hybrid for Europe

- An enduring legacy of innovation extends into a fifth generation with the most efficient Prius ever
- European sales will exclusively feature plug-in hybrid electric vehicle technology, emphasising Toyota's electrification leadership and strengthening the options available across its range
- Breath-taking new aerodynamic design and enhanced acceleration for a captivating drive
- World premiere today in Japan and at Los Angeles Auto Show, European premiere to follow on December 5



energy loss of about 20 percent throughout the system overall. Based on the stance that environment-friendly vehicles can only truly have a significant positive impact if they are widely used, Toyota actively encouraged development and adoption of the technologies. As a result, the sale of Toyota Prius and other hybrid models surpassed a cumulative total of 10 million units globally at the end of January 2017.





とよた
SDGs
パートナー



MIFUNE

未来へ、弛まぬ前進。

Continuous advance to the future



The Sustainability Challenge



Meet Steinar...

*"Nobody can do everything,
but everybody can do something"*

HAUGSTAD 
MØBEL - SKOLE & BARNEHAGE - KJØKKEN - KONTOR





HAUGSTAD 

MØBEL - SKOLE & BARNEHAGE - KJØKKEN - KONTOR

Fornybargaranti

Lyse bekrefter herved at

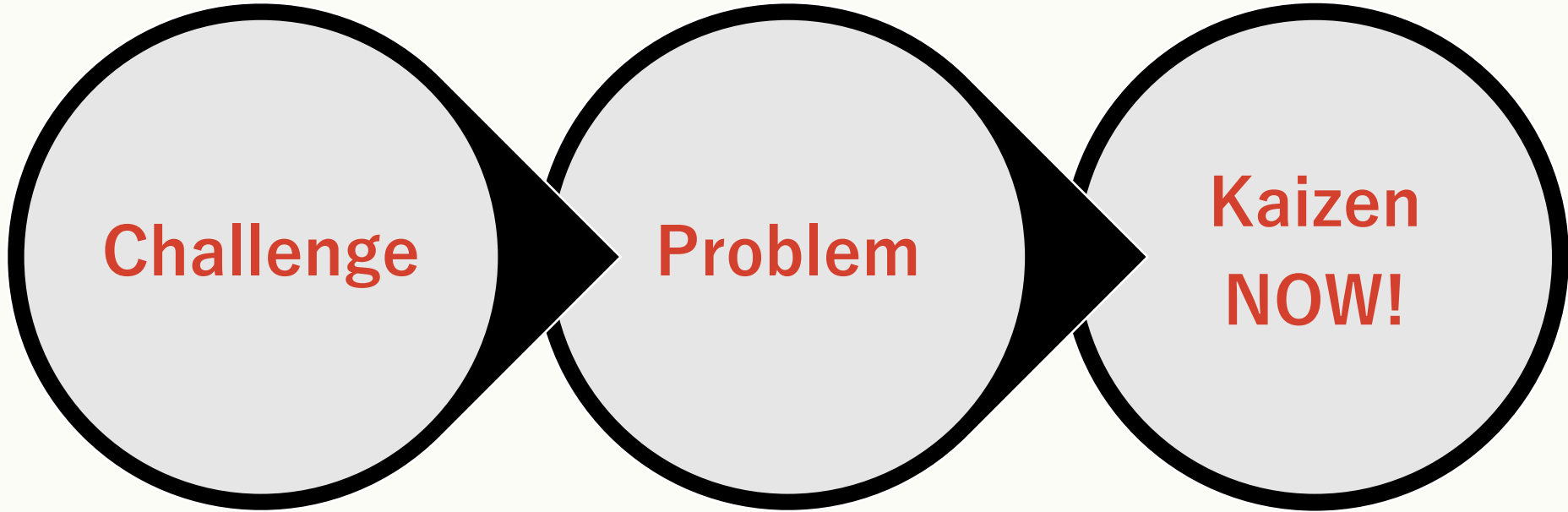
Haugstad Møbel AS

har kjøpt fornybar strøm
 – 100% vannkraft –
 fra Lyses kraftverk i Lysefjorden

Trude Marit Risnes

Trude Marit Risnes
 Administrerende direktør
 i Lyse Energisalg AS



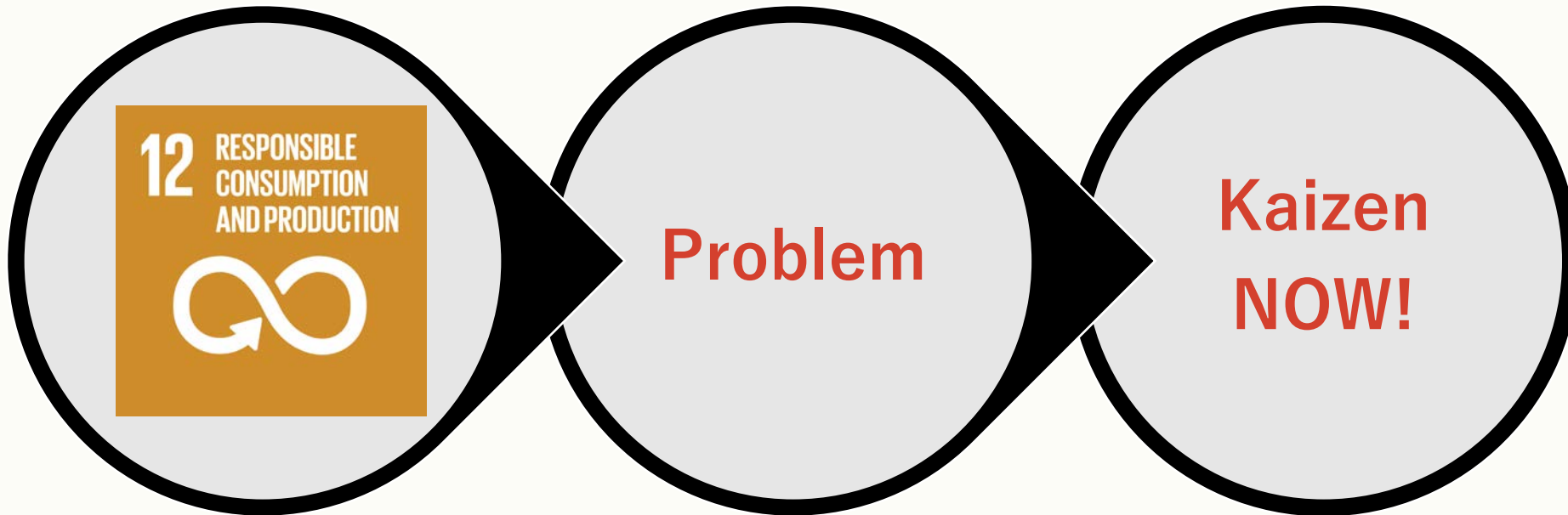


Challenge

Problem

**Kaizen
NOW!**





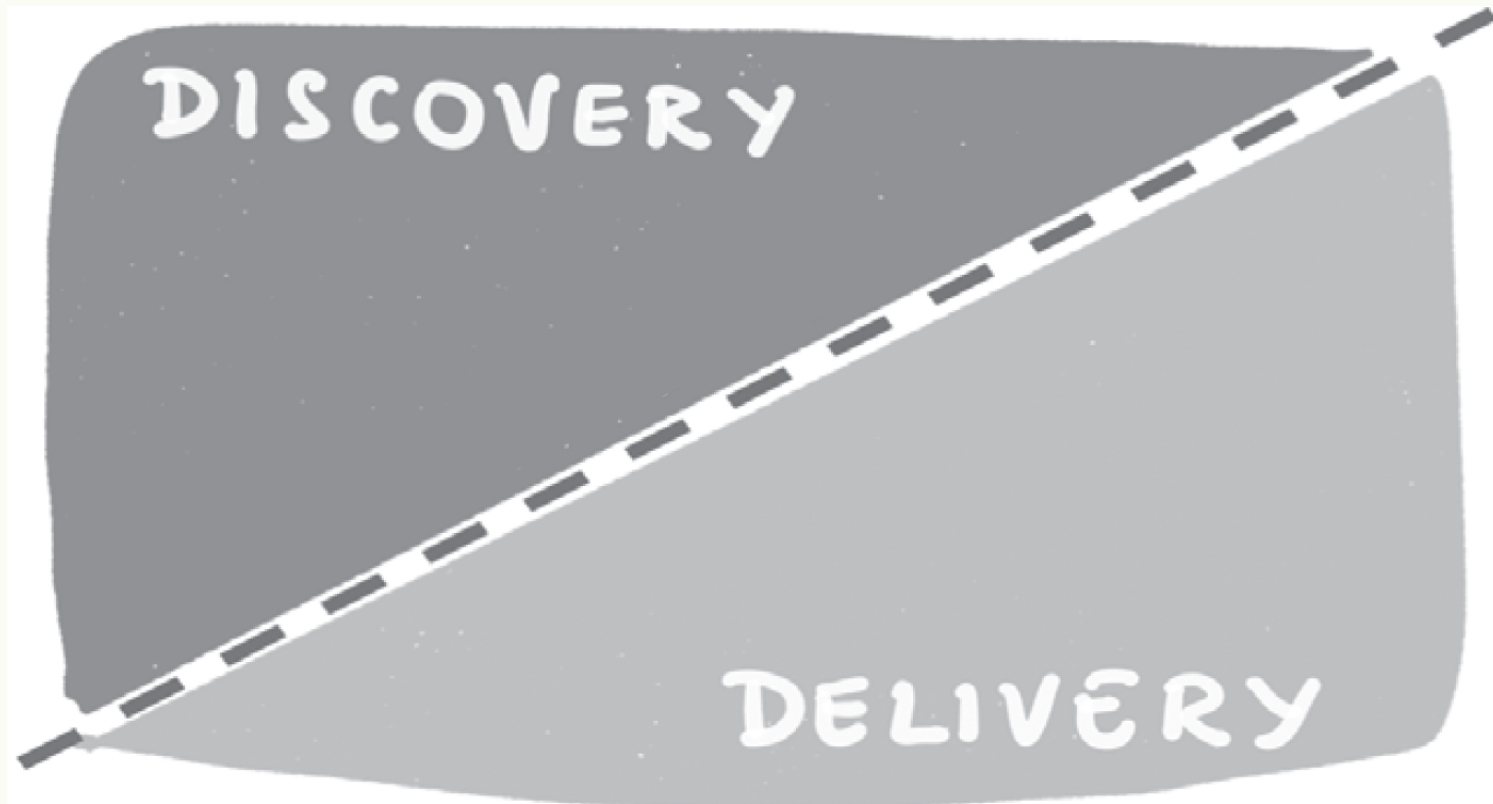




"There is no better way to learn about sustainability than to be a part of it, instead of sitting in a classroom and hearing about it"



Where to start?







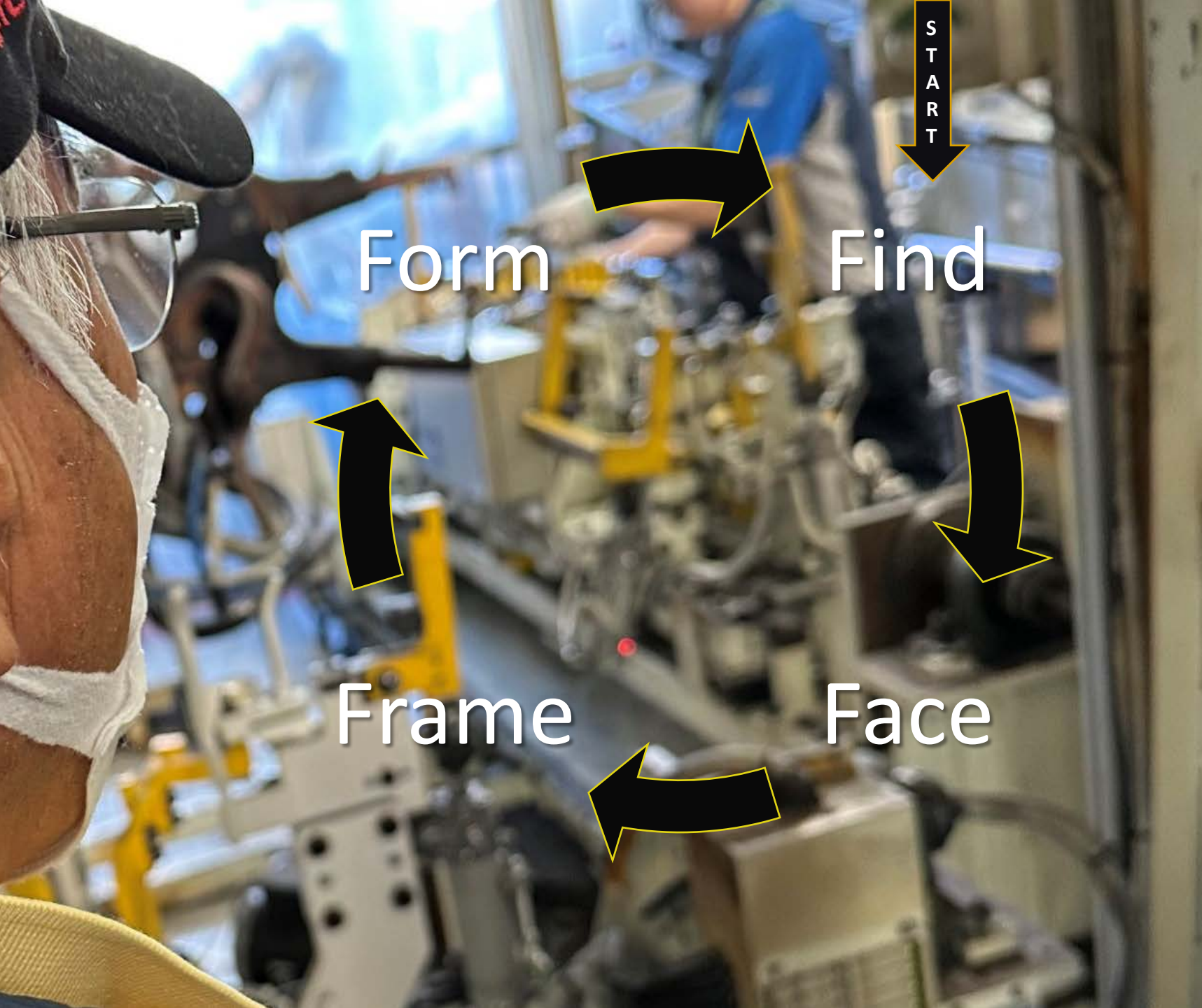
Form

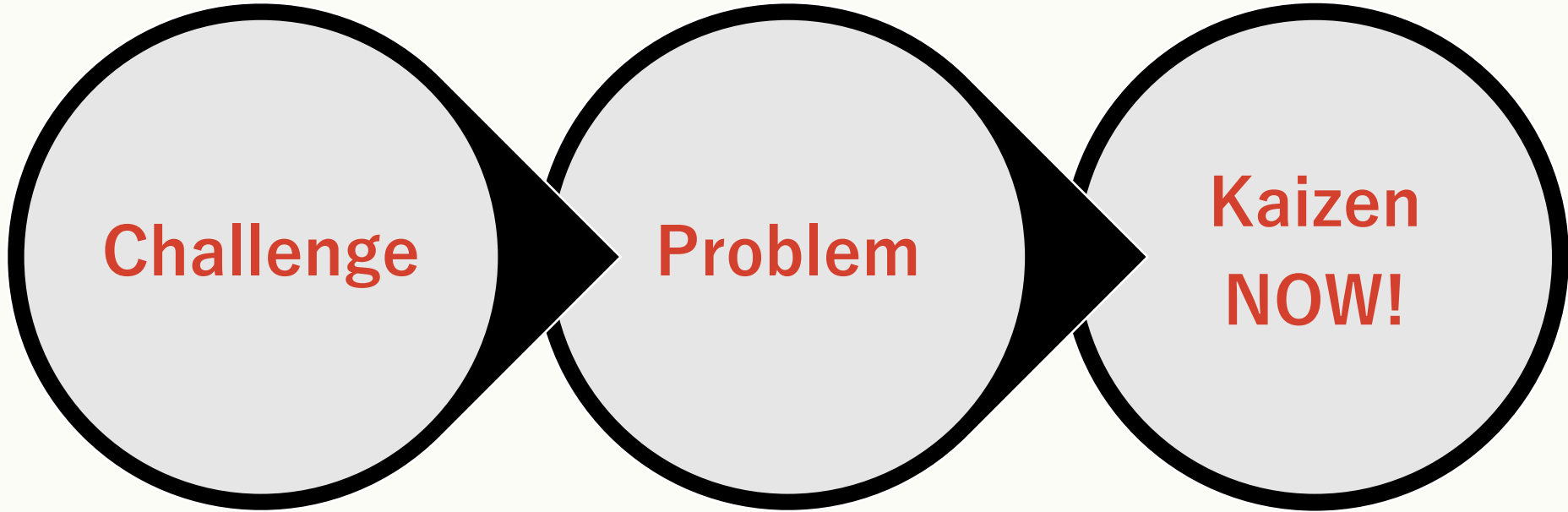
Find

Frame

Face

START



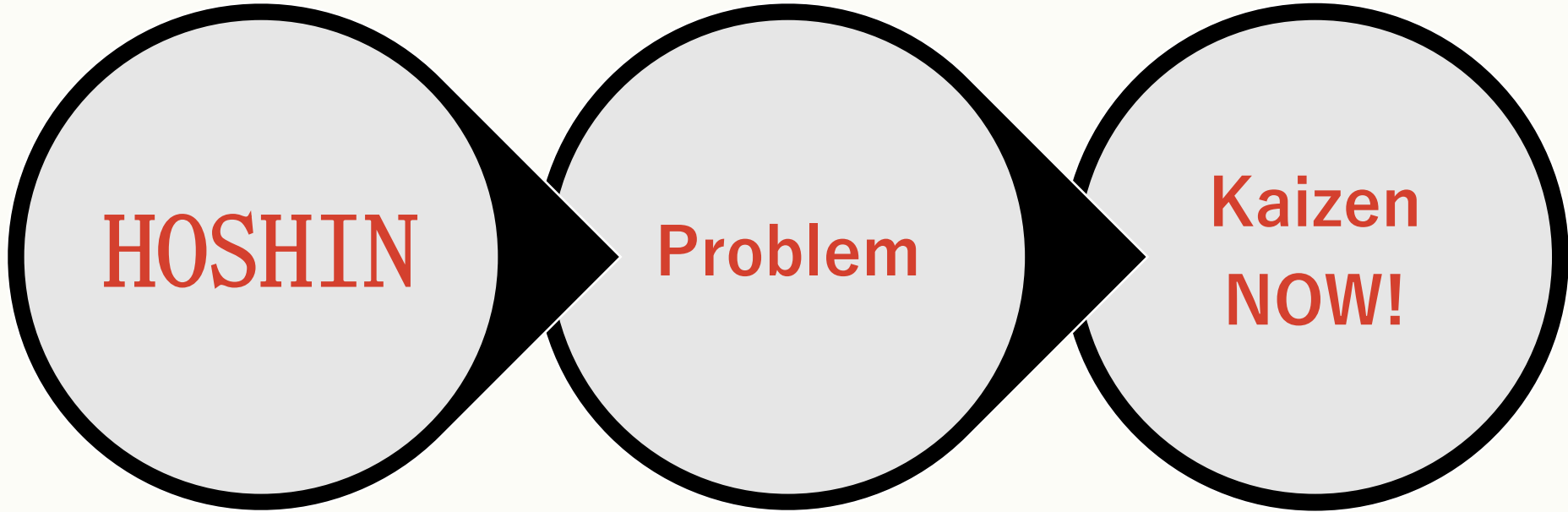


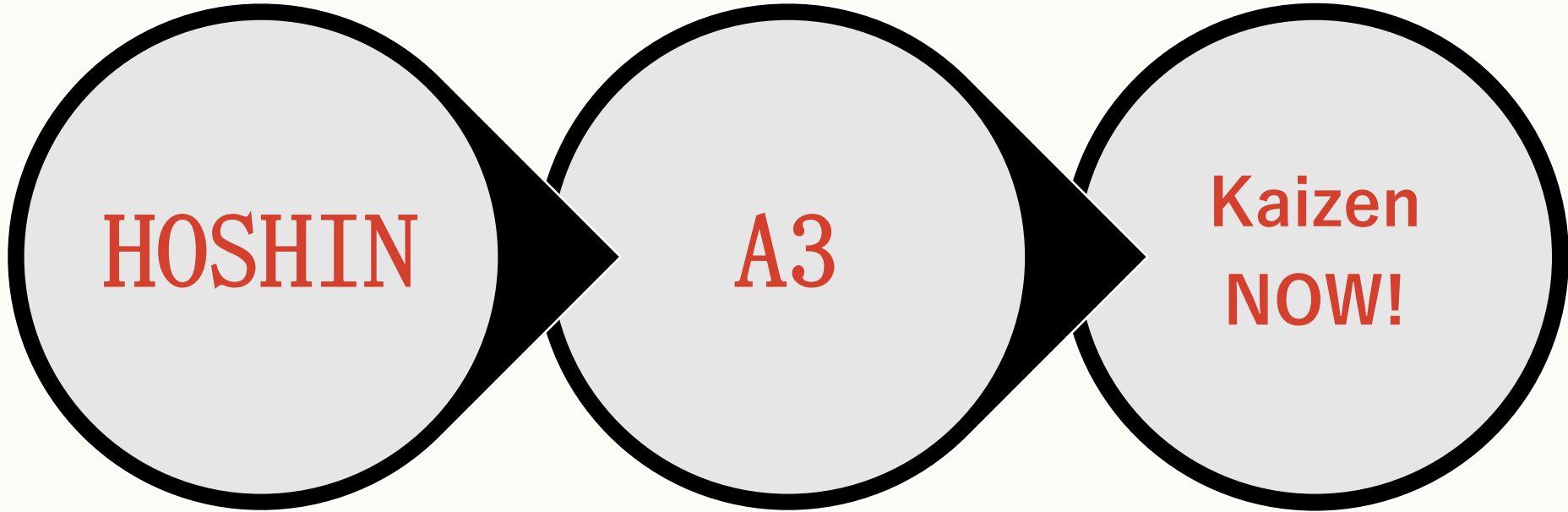
Challenge

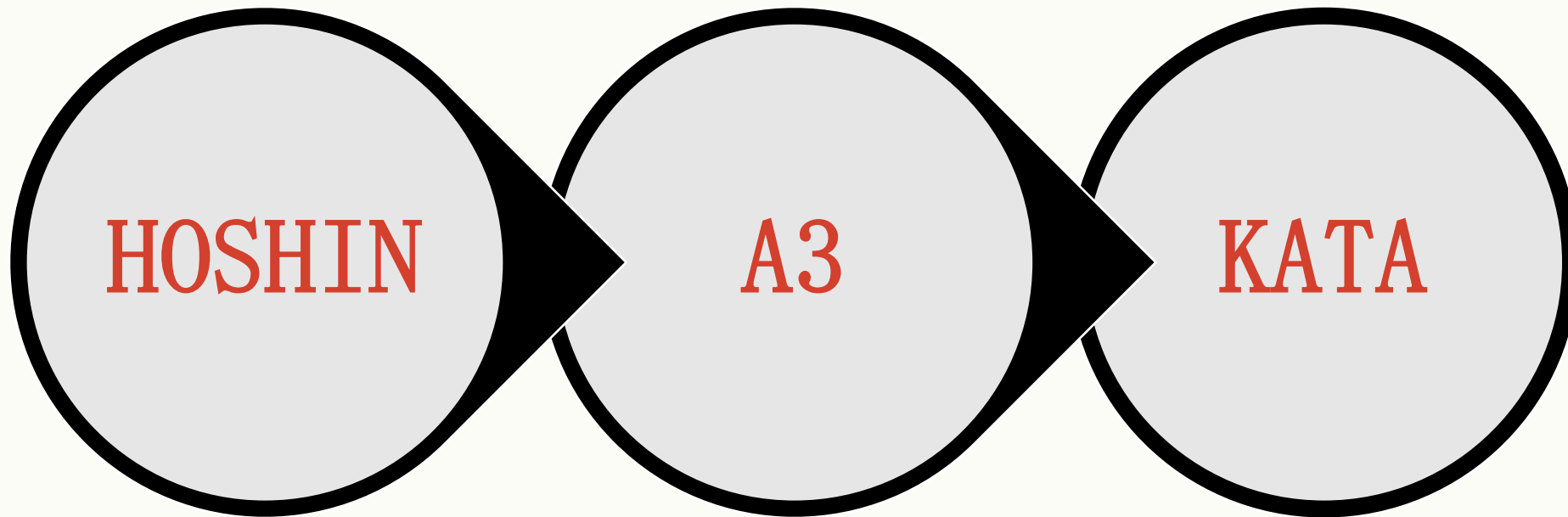
Problem

Kaizen
NOW!









*Disclaimer: This is not the solution, but a scaffolding to foster the resolution of our greatest sustainability challenges



Go. See. Challenge!



