

The 'One Pellet Development' Concept Connecting Prototyping and Mass Production Using the Same Material

Stage	R&D	Introduction consideration	Practical stage
Keyword	Mechanical Recycling	Lightweighting	

Use

Pellet-based 3D printer for prototyping
(e.g., shoe soles, drone housings)

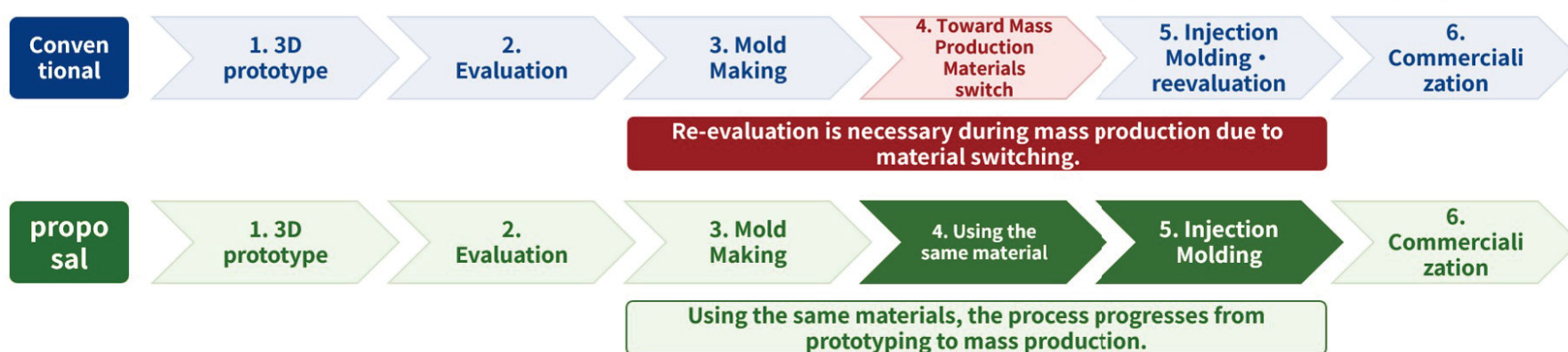
Challenge

- Because materials differ between prototyping and mass production, it is difficult to reflect prototype results in mass production design.
- Re-prototyping and re-evaluation due to material switching increase development time and workload.

Solution

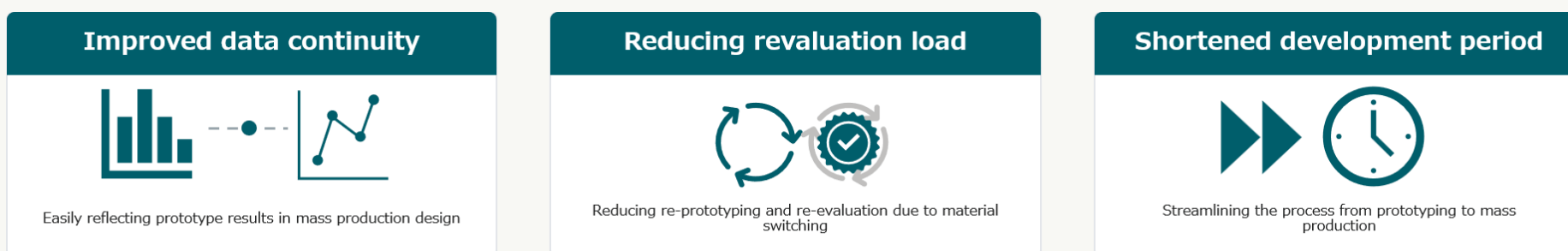
A development process connecting prototyping to mass production using the same material

A simple comparison of previous challenges with improvements brought about by this proposal



- Proposing an Integrated Development Process Using a Single Material from Prototyping to Mass Production

Benefit



Improved development efficiency

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