



Industrialized Construction

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Industrialized Construction

The application of manufacturing principles to the built environment.

Design

Projects can be designed with standardized repeatable, configurable products, assemblies and systems enabling data reuse and standardized processes



Construction

Labor is transferred to more controlled factory environments where safety and productivity can be continuously improved by manufacturing standardized products and applying automation



Manufacturing

Subcontractors and BP&F have line of sight into demand pipelines of more standardized products enabling better factory utilization and more productivity



Key processes and teams are siloed under traditional construction.

Autodesk will lead the way in connecting them

Design and Make on AI-powered clouds

Imagine a world where design and make happen simultaneously, fueled by the limitless power of the cloud and AI. This means faster innovation, fewer errors, and more sustainable outcomes



Digital and physical

We're moving beyond just visualizing designs. We're stepping into them, experiencing them, and operating them in immersive, virtual environments.



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Construction and Manufacturing

The lines between construction and manufacturing are blurring. Buildings are becoming more like complex products, assembled from prefabricated components, with a level of precision and efficiency previously unseen.

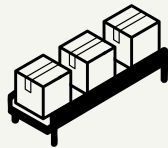


Industrialized Construction

Design and make are connected throughout the project and product lifecycle

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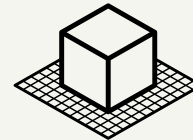
Capabilities
combined



Prefabrication

PHYSICAL OUTPUT

A methodology of product manufacture and fabrication away from the jobsite



Productization

STANDARDIZATION

The application of standardized, repeatable and configurable products or “kits of parts”



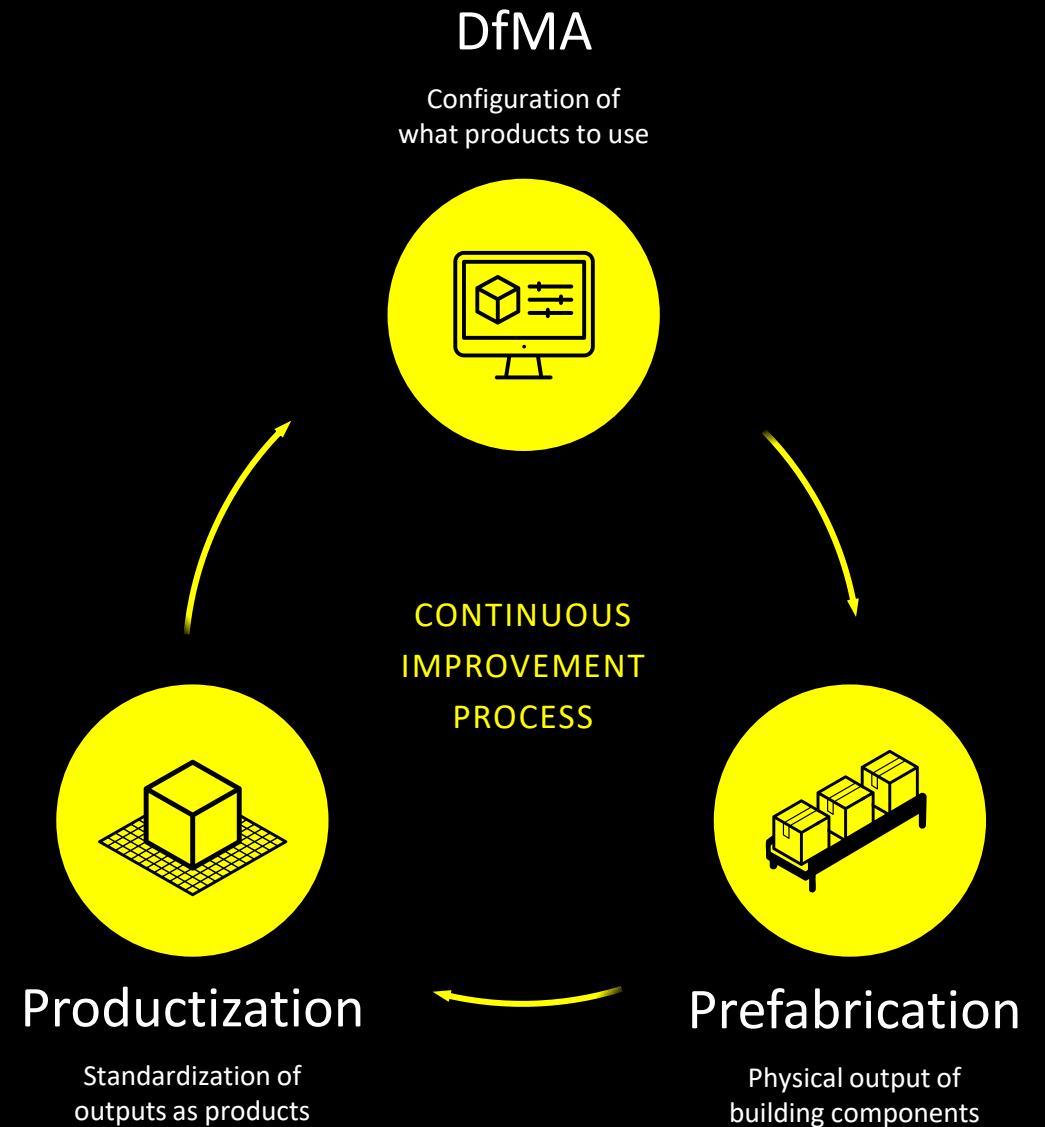
DfMA

CONFIGURATION

Rules based building design process based on productization and enabling prefabrication

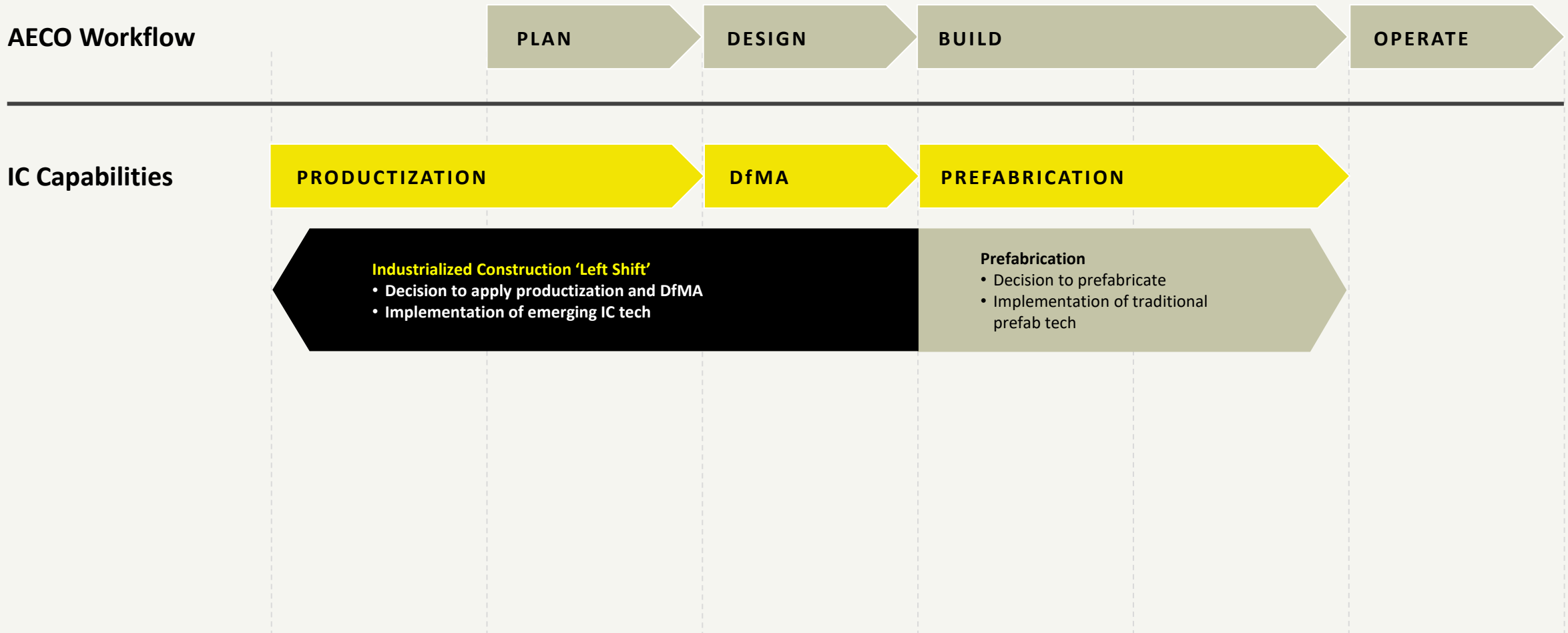
The transformation will enable continuous improvement

Connecting product and project data on our platform improves project outcomes and increases predictability



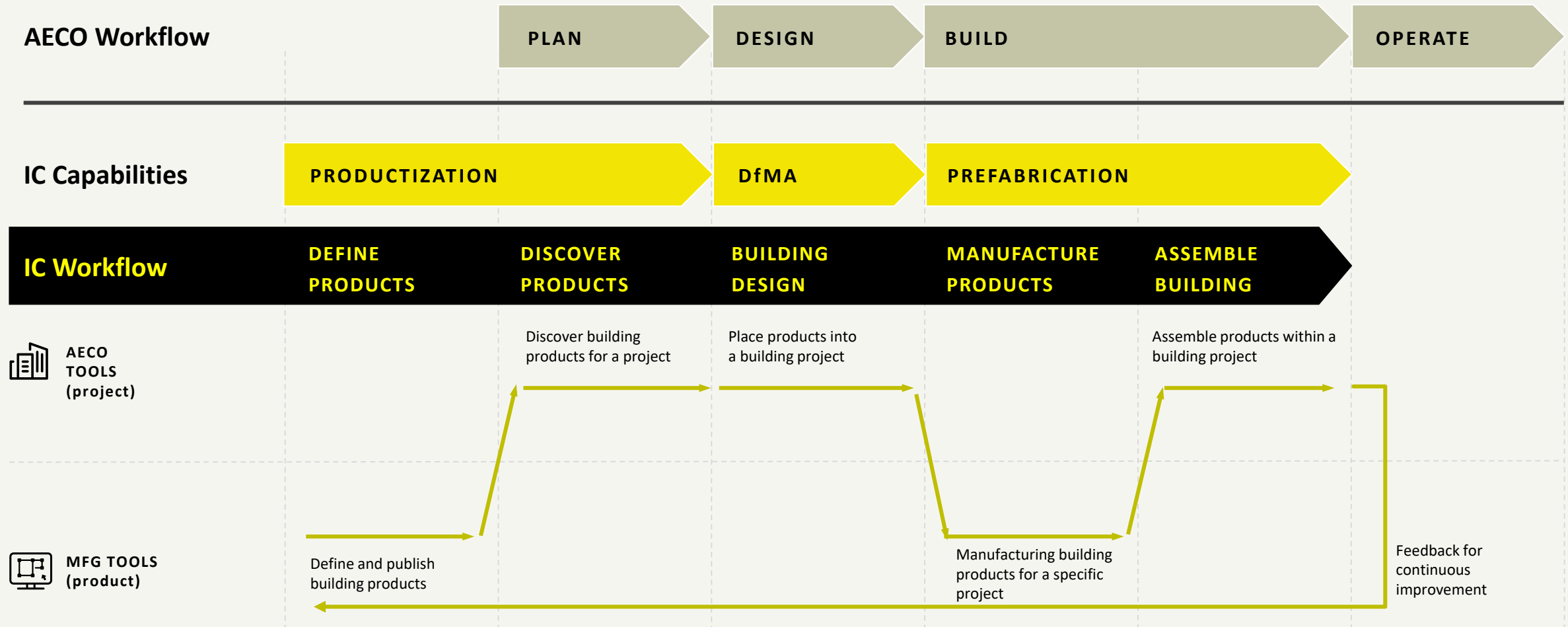
Improving AECO workflows with Industrialized Construction

Industrialized Construction requires a 'Left Shift' approach



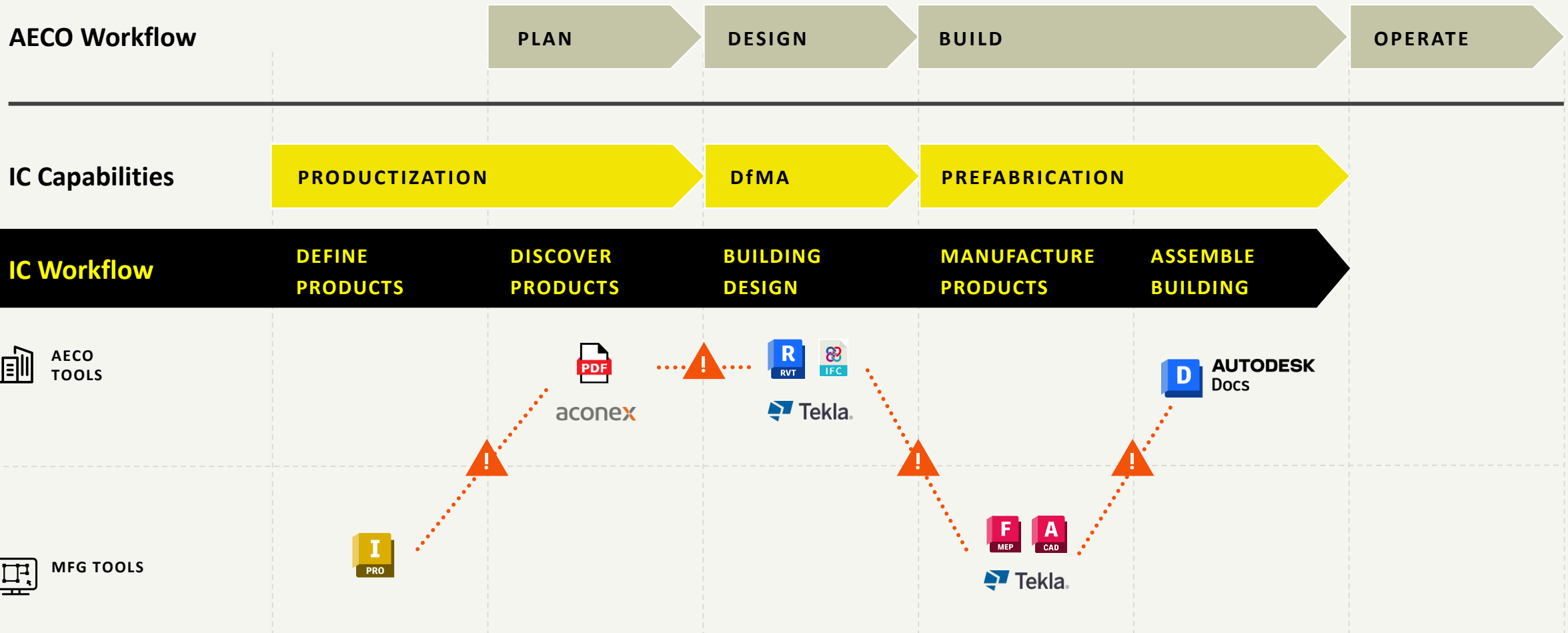
Improving AECO workflows with Industrialized Construction

Idealized IC workflow needs to span both AECO and MFG tools



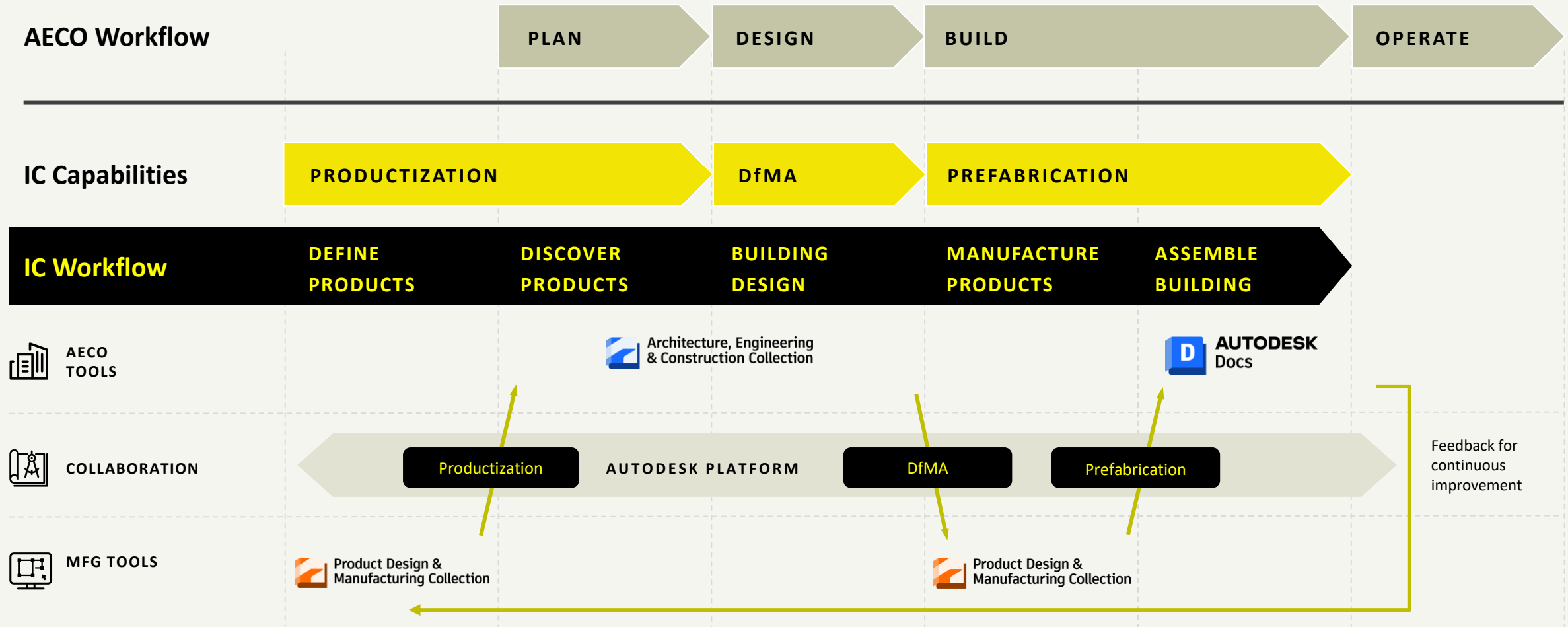
Example customer workflow

Existing Customer Workflows are broken



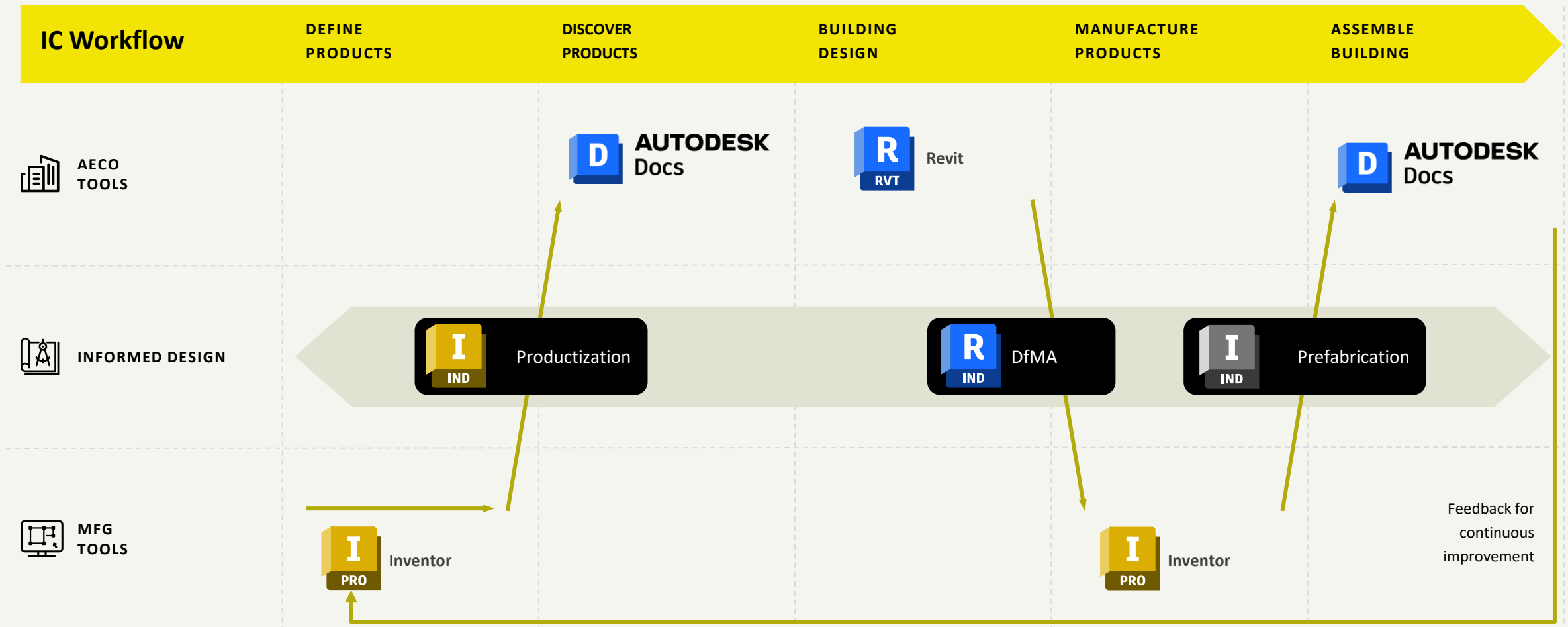
Enabling collaboration across AECO & MFG

Autodesk tools and platform can bridge the gap



Informed Design connects AECO & MFG

Current Workflow for Informed Design



Evolution of Industrialized Construction Technology



Product complexity
and configuration



Product placement
and automation



Product access
and selection



Product
data



Project to product
life cycle



Learn more about
Informed Design



Download our
White paper here



Make Anything