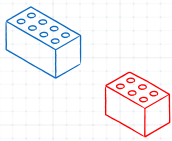


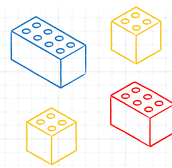
The INFRASTRUCTORS

A Toybox for Collaborative and Modular Construction *the executive summary*

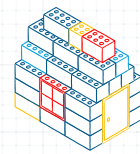
Construction has always been fragmented because of the number of stakeholders involved, but this complexity has been further heightened by the **global skills shortage, rising costs and changing ESG regulations**. A new solution – productization – could help.



First, construction processes are broken down into “virtual construction bricks,” standardized, and uploaded to a digital database. This offers greater flexibility, as the “bricks” are adaptable and can be **easily duplicated and modified for different needs**.

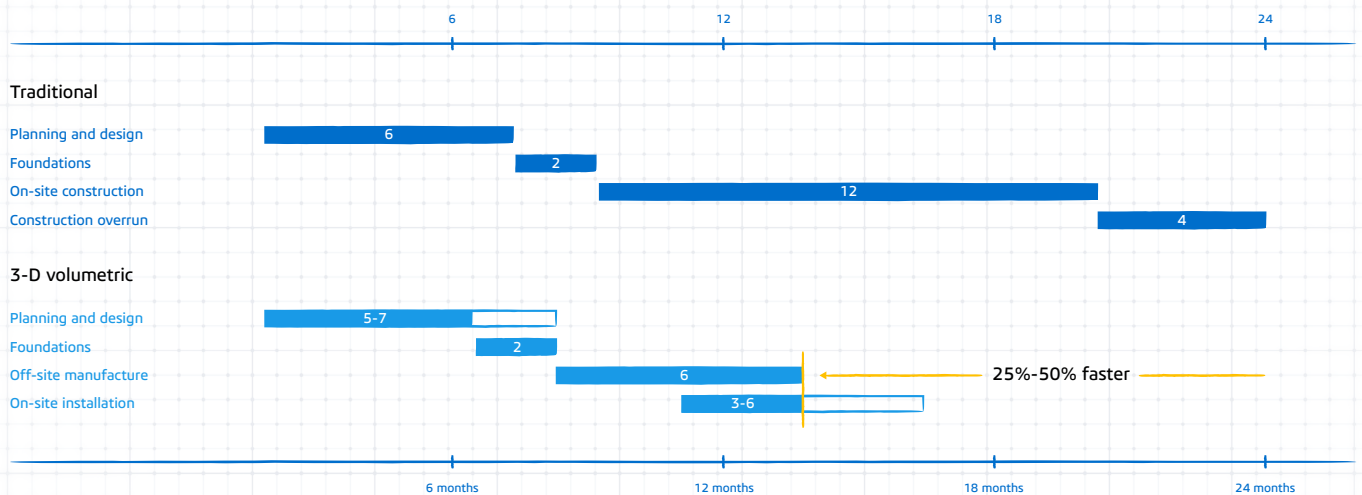


Builders then select “bricks” from this marketplace and **integrate them within a virtual twin**, adapting the layout and properties of these bricks according to prevailing construction needs.



Similar **modular approaches are also being used in other sectors**, like energy, where modular reactors – designed according to standardized frameworks – are helping open up new routes for the flexible, low-risk, and cost-effective design, deployment, and operation of nuclear power.

Example apartment-project-construction duration, traditional vs off-site 3-D volumetric



Source: McKinsey, Modular construction: From projects to products

Dassault Systèmes' Education Experiences is working to give hands-on experience in virtual twins to students, so they will have **the skills to deliver future productization solutions** and help the construction sector keep pace with global infrastructure needs.



Want to find out more?

[Meet the Infrastructors](#)

