

CS501218

# **Unlocking the World of Industrialized Construction**

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# **Learning Objectives**

- Learn how we've harnessed Autodesk's suite of Autodesk Forge APIs to build a real-time configuration platform for IC systems.
- Gain an overview of the industrial construction landscape, including its key players.
- Learn about the particular challenges of building a multisided B2B marketplace.
- Discover the many ways in which industrialized construction will impact architecture, design, and technology.

## **Description**

"Factory-made buildings have been the next big thing since the Romans" - so where are they?

Join our talk for a glimpse at the near-future of industrialized construction-the ultimate marriage of the Autodesk Forge APIs, manufacturing, building information modeling (BIM), and construction. Despite its promises of improvement, off-site construction has continually struggled to achieve the significant momentum it requires in order to become self-sustaining.

What's missing? At KOPE we've cracked one of the thorniest aspects in industrialized construction (IC) - supply chain transparency. Supplier secrecy is both a bug and a feature of the construction world. Through our MMC Market, we've been building a free forum to democratize, open up, and interconnect the world of suppliers, projects, builders, and consultants. At KOPE, we're using Autodesk Forge technology to build the online platform for the coming world of off-site construction. We look forward to showing you what that looks like.

# Speaker(s)

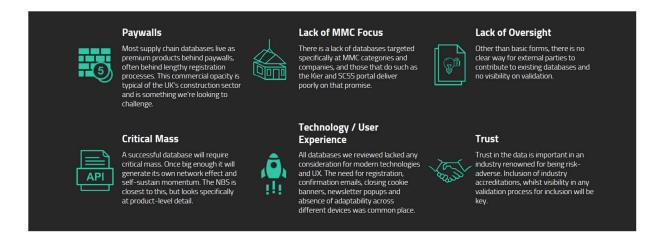
David Flynn is one of the Co-Founders of KOPE, having previously worked as an architectural technologist. in LinkedIn

Oliver Green is a Product Manager at KOPE, having formerly worked as an architect and software engineer. in LinkedIn



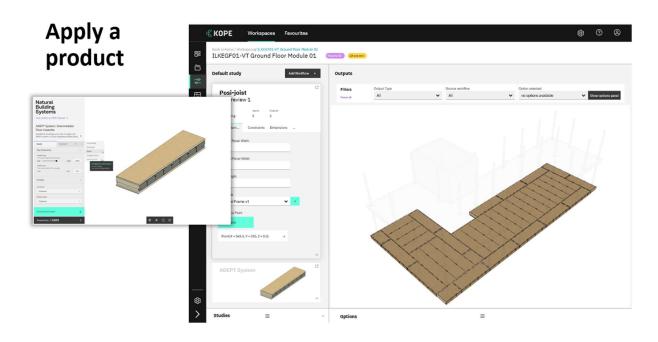
# **Issues with Existing Databases**

In researching the UK's public offsite construction data we found a few different offerings, some paid-for services, some attempts at open sourcing information. People had already had the same idea as us, however none of these projects had been a roaring success. As we tried them out, we identified 6 main problems. We set out to build a new, open, completely free industry service that would tackle all 6 of these problems for good.



#### **KOPE**

Our offsite construction platform, KOPE, uses the Autodesk Forge suite of APIs to generate downloadable Revit models directly from the outputs of our multi-step workflow builder.





# **Helpful Links & Resources**

#### **KOPE**

Our website - https://kope.ai

#### **MMC Market**

Home page - https://mmc.market

Register as a Supplier - <a href="https://mmc.market/register/supplier/">https://mmc.market/register/supplier/</a>

Register as a Consultant - https://mmc.market/register/consultant/

Register a Project - <a href="https://mmc.market/register/project/">https://mmc.market/register/project/</a>

### Reports & Reading

UK Government - Farmer Review (2016) AKA 'Modernise or Die'

UK Government - The Construction Playbook

Construction Innovation Hub – The Product Platform Rulebook

McKinsey & Company - Modular Construction: From projects to products

McKinsey & Company - Rise of the platform era: The next chapter in construction technology

McKinsey & Company - The next normal in construction

McKinsey & Company - Reinventing construction through a productivity revolution

NobleFrancis - Industry Analysis Twitter Feed

#### **History of Modular Construction**

Construction Physics - <a href="https://constructionphysics.substack.com/">https://constructionphysics.substack.com/</a></a>

Instant House Blog - https://instanthouse.blogspot.com/