

Implementing Autodesk Construction Cloud Across a £1.8billion Business

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Learning Objectives

What will you learn today?

Subtitle



**AUTODESK®
CONSTRUCTION
CLOUD**

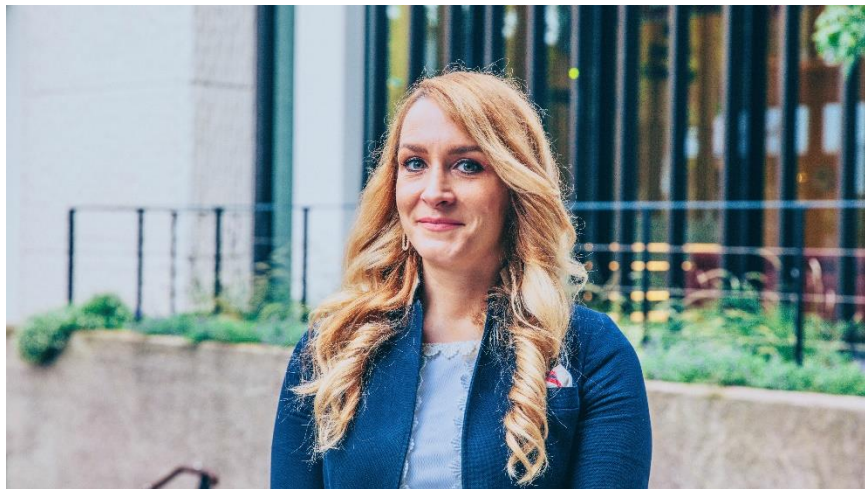
Learning Objectives

- Understand how to develop a strategy for implementing Autodesk Construction Cloud in your company.
- Identify uses for different BIM 360 modules and Assemble platform.
- Explain how to use the product to improve coordination and drive efficiencies on site.
- Identify training requirements and deliver the right training for your users.

About the Presenter

About the Presenter

Subtitle

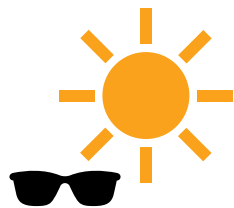


Ivana Tudja, BIM & Digital Engineering Lead, Mace Group

- Qualified Architect (ARB) – Masters in Architecture & Urban Planning
- Over 15 year of experience in AEC industry
- Cluster Lead for Autodesk Construction Cloud
- Previously Authorised Instructor for Autodesk products
- 40 Under 40 Champion in Construction 2020 at Autodesk Construction Solutions
- International conference speaker

About the Presenter

My journey



ZAGREB



BARCELONA



BELFAST



LONDON

About us

- a global company of experts in shaping and making the built environment.
- It provides **development, consulting, construction and operations services** for many of the world's most inspiring building and infrastructure projects and programmes - from **Olympic parks and iconic skyscrapers to state-of-the-art data centres, schools, hospitals and homes**
- Privately-owned, headquartered in **London, UK**
- An annual turnover of **£1.8 billion**
- Over 30 years, its growth has been fuelled by an adventurous spirit and the relentless pursuit of a better way. Today, the company employs over **6,000 people** across five global hubs in Europe, Middle East and North Africa, the Americas, Sub Saharan Africa and Asia Pacific
- driven by its purpose to **redefine the boundaries of ambition**, and its vision of leading the way to a more **connected, resilient and sustainable world**

Project Example

UCL East Marshgate

- UCL East is a new world-class UCL campus and the largest expansion of University College London since it was founded
- Marshgate will be home to new degree programmes, research, innovation and technologies from across nine UCL faculties
- Driving innovation by using cutting edge technology – ACC is a part of it





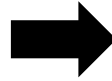
Why?

Context

About

CHALLENGES

- Change process across the company
- Inconsistencies across the Business
- High volume of projects making individual decisions



BUSINESS NEEDS

- Compare projects and analyse data
- Reduce the costs of having multiple solution
- Simplify training



STANDARDISATION

SCALE:

100+ PROJECTS &

2500+ USERS

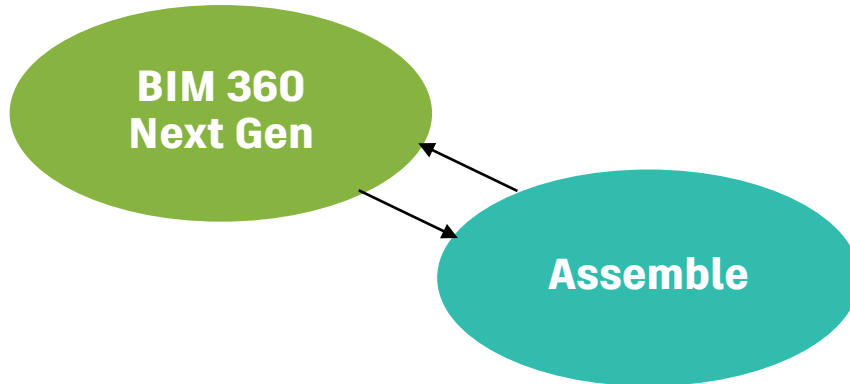


Software Solutions

Autodesk Construction Cloud

About

- Term covers all cloud based and construction focused software / services from Autodesk
- Turning into a single Unified platform
- 2 main platforms implemented at Mace:
 - BIM 360 Next Generation
 - Assemble



Platform Uses

BIM 360

Use:

- Document Management
 - Model Viewing
 - Design Management & Coordination
 - Cloud based clash detections
 - Model Comparisons
 - Risk Management
-
- QA / QC
 - Site Diaries
-
- Meeting Minutes
-
- Data Analytics
-
- Integrations with other solutions

Module / Tool:

Document Management & Model Coordination

Build / Field Management

Build / Project Management

Insights + Construction IQ + Power BI

Autodesk and non-Autodesk products

Platform Uses

Subtitle

Assemble

- Quantity Take-Off



-
- Progress Tracking
 - Asset Data Checks
 - Sustainability – embodied carbon



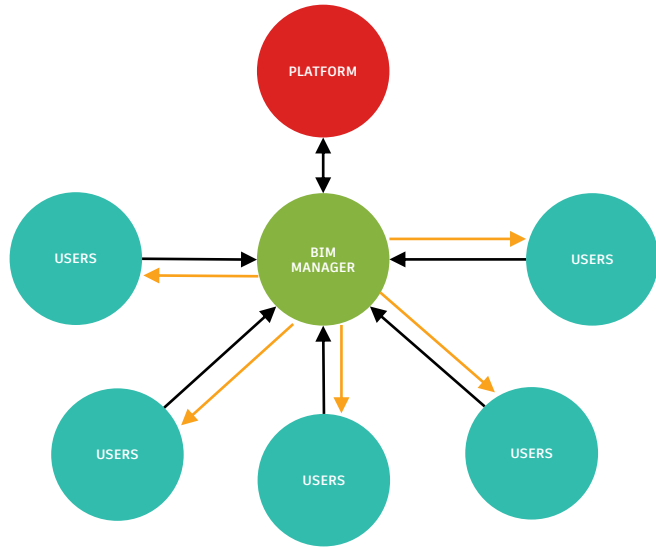
PRE-CONSTRUCTION

CONSTRUCTION

Quantity Take-off

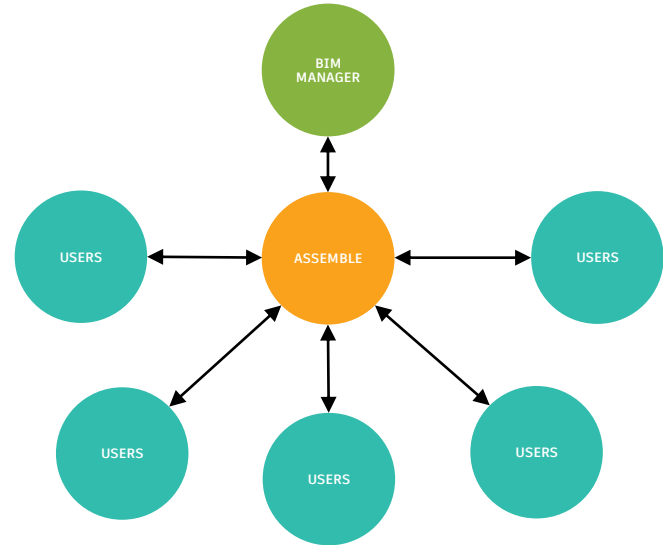
Information Access

BEFORE



Access enabled via
middle person

NOW

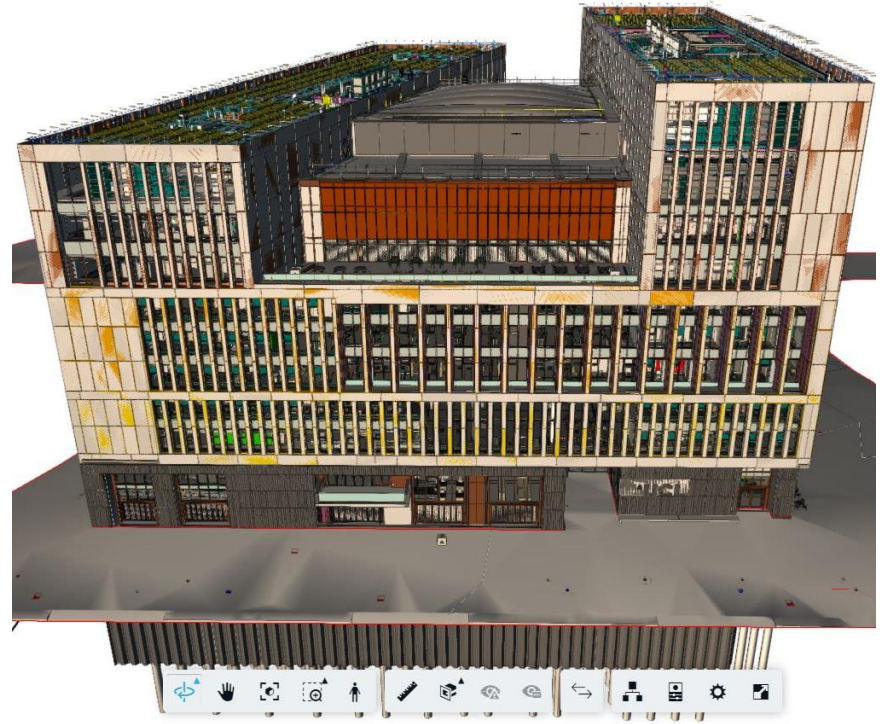


Direct Access to Data



Project Example

UCL East Marshgate



MAIN VALUE:
EASE OF ACCESS &
COLLABORATIVE
WORKING



Implementation Strategy

Digital Transformation

Key Steps



1

Out of the box
thinking

2

Keeping up with
changes in the
industry

3

Importance of
hands-on
experience

4

You can't
implement Field
tools whilst
sitting in the
office

5

Make bold
decisions to
make a real
impact

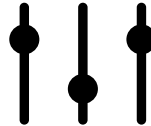
Standardisation

Custom Workflows & Processes



UNDERSTAND
COMPANY'S NEEDS AND
PROJECT GOALS

Subject Matter Experts



UNDERSTAND THE
SOFTWARE / USE OF
PLATFORM

Technical / Product
Specialist



CUSTOMISED COMPANY
WIDE STRATEGY

Multidisciplinary
Team

Team Structure

Roles & Responsibilities

IMS Team + ACC Lead + Technical
Champions + Quality Lead

**BUSINESS
LEVEL**

BIM & Digital
Engineering Lead

**BUSINESS UNIT
LEVEL**

BIM Manager

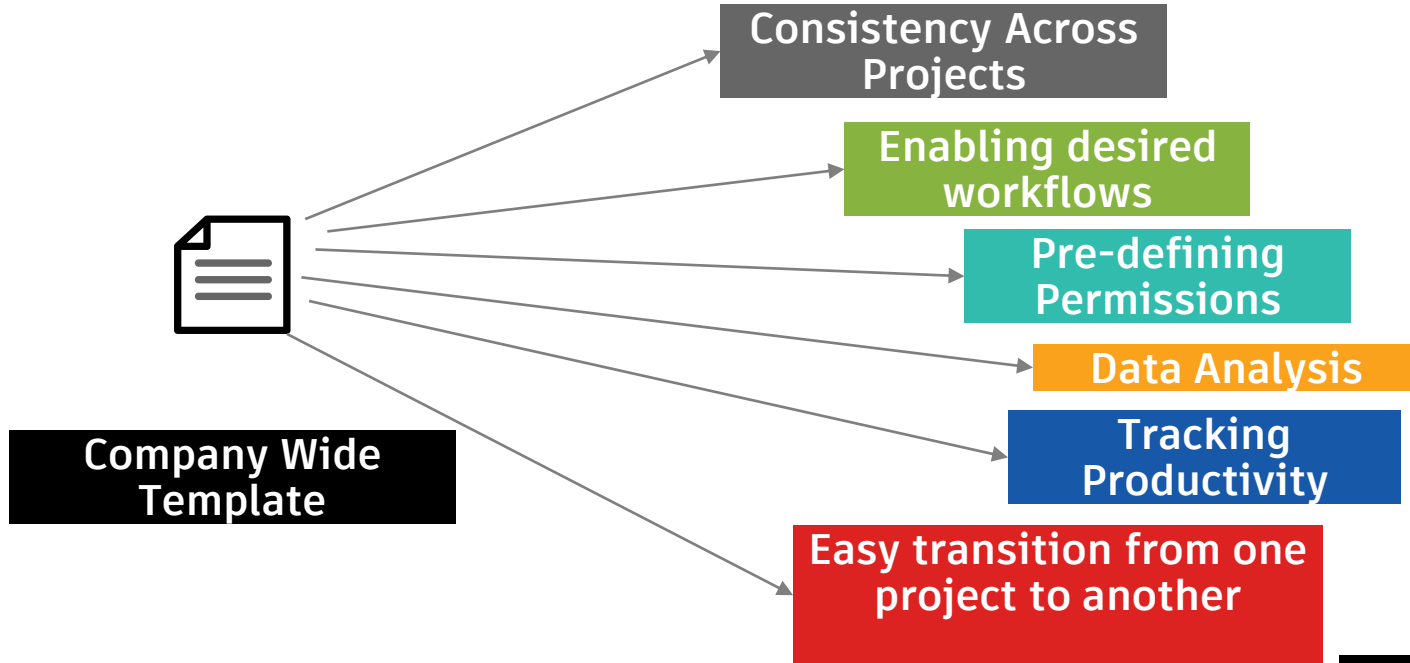
PROJECT LEVEL - OVERALL

Quality Manager
Construction Manager = BIM
360 Site Champion

PROJECT LEVEL – FIELD

Template

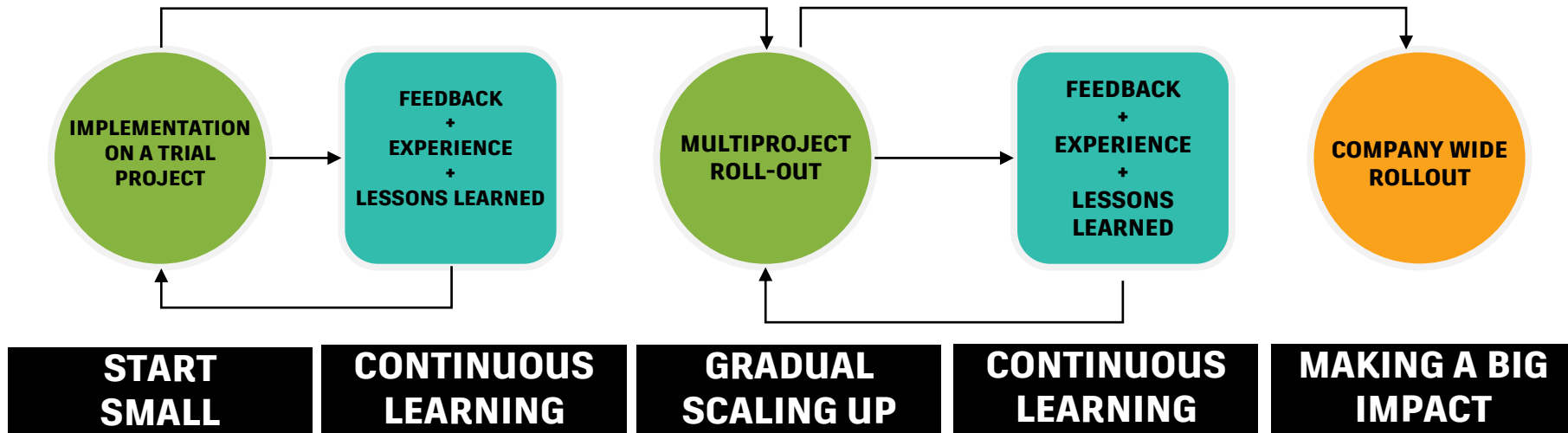
Custom Workflows & Processes




**TIP: Document all of
your settings in an
external document**

Test Your Product

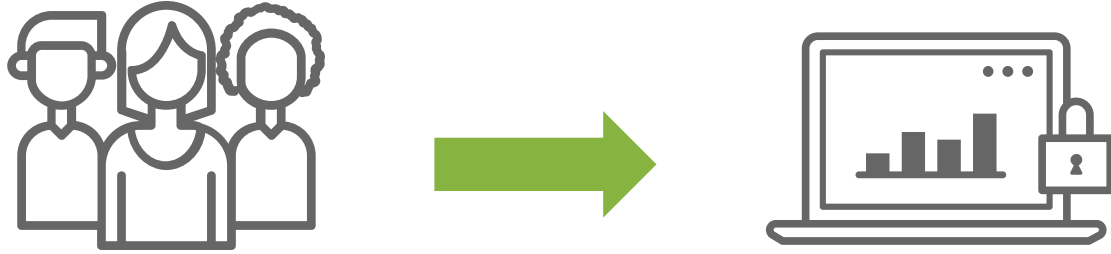
Project Rollout



OUTPUT:
**DATA DRIVEN DECISION
MAKING**

Training

Knowledge Survey



Staff Assessment / Evaluation

Types of training

User groups / Stakeholders



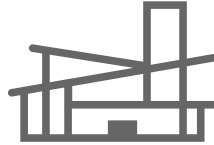
Mace Team



Leadership



Direct Users



Consultants



Supply Chain

DIGITAL
TRAINING
ACADEMY

Types of training

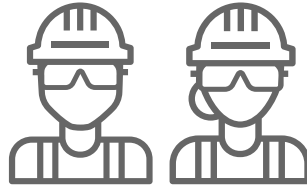
Training Delivery



Online sessions

Platform awareness /
general overview for
business unit leaders

WHY?



On-site

Specialist Training /
Practical Sessions for
direct users

HOW?



1-1 support provided as / when required

Day to day support
provided on site

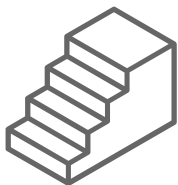
HOW?

KEY FOR SUCCESS:
CONTINUOUS SUPPORT



Next Steps

Next Steps



CONTINUOUS WORKFLOW IMPROVEMENTS

Feedback from users +
new product releases



PROCESS AUTOMATION

Supporting efficiency -
ACC Connect



UNIFIED / AUTODESK BUILD

Product familiarisation,
testing and transition
planning

CONSTRUCTION DOESN'T



~~WANT~~ TO CHANGE

KNOW HOW



Additional Resource & Questions

Subtitle



The background of the slide features four abstract, dark gray geometric shapes, resembling stylized computer monitors or architectural elements, positioned in the corners. They are set against a solid black background, creating a high-tech, modern aesthetic.

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