Collaborative Workflows and Business Models
Future of Digital Engineering for AEC Market

Andreas Gerster, VP Construction-BIM
The BIM Vision
AEC Industry Challenges

10% of materials are wasted

30% of construction cost is rework

30% of high rise projects finish more than three months late
AEC Industry Challenges

- Construction projects are becoming increasingly complex and expensive
  - increased demand for well thought-out design (less design changes in the built phase)
  - more efficient implementation during the construction phase
  - greater need for coordination between the companies involved

- While lack of qualified staff is a major bottleneck

Top 5 Issues Facing the Construction Industry in 2017

1. SHORTAGE OF QUALIFIED WORKERS

70% of contractors say that they are having a difficult time finding qualified workers or professionals to fill these growing positions.

Survey: AEC firms ‘stymied’ by shortage of experienced professionals
Where Reality meets Design …

On-Site Capture → Design

Construction → Layout

As-Built Model & Design → Quality Control

Single Source of Truth

… and Design meets Reality
Thank You!