Say goodbye to steering construction projects blindly

I remember it clearly. It was a Thursday in Feb 2019 when we received a phone call from one of Contilio’s early customers, a global Tier 1 general contractor. Our 3D AI software had caught a significant slab quality error for their $250m healthcare project, saving them lots of headaches and money.

The customer did not have to wait weeks for a manual quality check - which only *might have* detected the error. Our software had automatically flagged the issue in less than 24 hours, thanks to a smart combination of site data, the 3D AI software we were advancing through our first Innovate UK project, and the customer’s desire to start managing projects with open eyes.

Real-time insights and increased value

I have designed, managed and invested in several construction projects and seen first-hand what delays or rework issues can do to a project. I also know that these problems do not happen in isolation; the early Contilio software deployments and 40+ interviews with leading construction companies have confirmed that these are not only my clients’ problems. Delays, compounding risks and rework have always been familiar thorns in the sides of construction operators and senior leaders. Decisions are made based on intuition and with limited manual inputs, as opposed to how they should be made: based on actionable insights and in real-time.
For the rest of 2019, and as a part of our first Innovate UK project, we further developed our 3D AI progress and performance analytics software and confirmed its significant value through multiple deployments on complex construction sites. We also established a hugely differentiated 3D construction dataset, and through collaboration with Imperial College London, developed a novel approach to automatically label the data.

A second project, as part of the ISCF Transforming Construction programme:
The project was a huge success, so much so that we decided to continue our collaboration through a second Innovate UK project during which we will:

- Create fully semantic digital twins, enabling significant efficiencies during the operations
- Digest and analyze data beyond stationary and mobile lidar, and 360-degree photos
- Research Scan-to-BIM, enabling provision of instant feedback to users

We also released our latest software platform to the market. Data gets uploaded into a secure cloud environment and processed automatically (using our optimized 3D AI platform) into intelligent analytics on construction progress, installation quality and predictive KPIs on risks. These analytics can be accessed by users through an easy to use, intuitive cloud dashboard.

Feedback loop
Most importantly, we have had the privilege to work with many Tier 1 general contractors, certification companies and asset owners in the UK and globally. They are using Contilio to make decisions dynamically, to improve project delivery and ensure compliance with Covid-19 requirements.

And, we are not stopping there. We are always looking to partner with innovative customers and partners who understand that the construction industry is at a crossroads, and who are
choosing the right path to drive operational efficiency for their organizations. We look forward to hearing from you and to creating 20X value together.

Zara Riahi is CEO of Contilio (http://www.contilio.com) a ground-breaking analytics startup at the intersection of construction, deeptech and enterprise SaaS. Our AI-based platform analyses site data in real-time and turns them into intelligent insights on construction progress, performance KPIs and risks. This empowers contractors, project owners and investors to have 360-degree visibility into risks and issues, make timely and accurate decisions and enjoy from billion-dollar productivity, cashflow and compliance benefits.