Why Innovation MUST Come With Assurances

Host:

Peter Sumpton – Marketing Consultant

Presenter:

Mike Moseley - Knowledge Transfer Manager (Construction) @ Knowledge Transfer Network and an i3P Secretariat

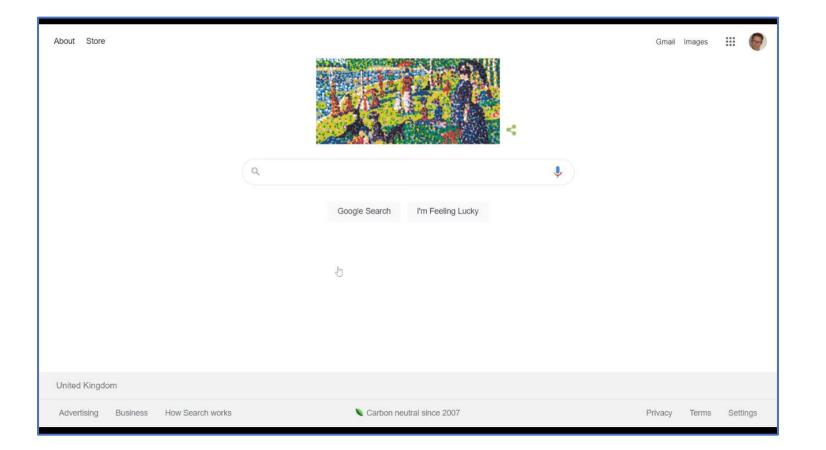
February 2022





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The BBA



For over 50 years, we've been helping the construction and manufacturing industries **build confidence** in the solutions designed, created and implemented **throughout the entire supply chain**.

The BBA develops **long-term partnerships** with clients and associations to enable **continued growth in both the UK and Global marketplaces**, while remaining reassuringly impartial.

As a for-profit organisation Limited by Guarantee, the BBA looks to reinvest in the industry as a whole for the benefit of all stakeholders.



What we do



Product Approval Certification



BBA Agrément Certification



Reproduction Certification



HAPAS



Testing



Audit and Inspection



Management Systems



UKCA Marking

To date







YEARS IN BUSINESS



72+
COUNTRIES REPRESENTED
by CLIENT BASE



400+
TESTING METHODOLOGIES



170+
BBA PEOPLE



ANNUAL INSPECTIONS AND ASSESSMENTS

What we'll cover;

- Trends in digital innovation
- Why digitisation plays a key role to ensure product assurance
- The relationship between digitisation and quality management
- Q&A



Digitisation Of Construction

Why Innovation MUST Come with Assurances

8th February 2022

Mike Moseley
Knowledge Transfer Manager Construction





Trends in Digital Innovation

1963 to the Future





When is the future coming?

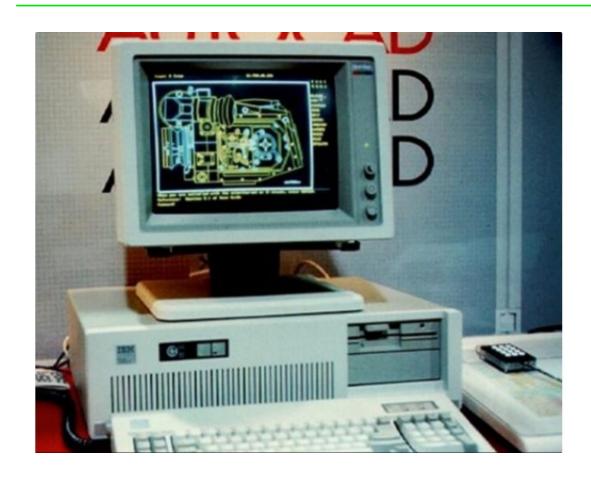


Ivan Sutherland developed **Sketchpad** in 1963 as part of his thesis at MIT—titled 'Sketchpad, A Man-Machine Graphical Communication System'





The Future is now!



Autocad 1 1982



Are we there yet?







Why Digitisation

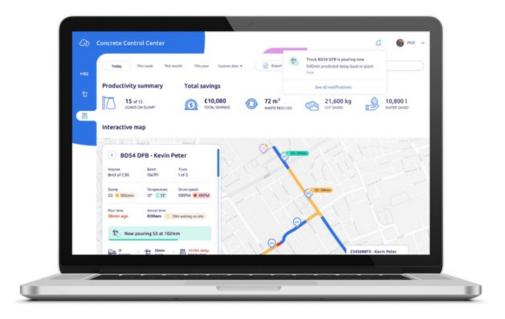
Plays a key role to ensure product assurance



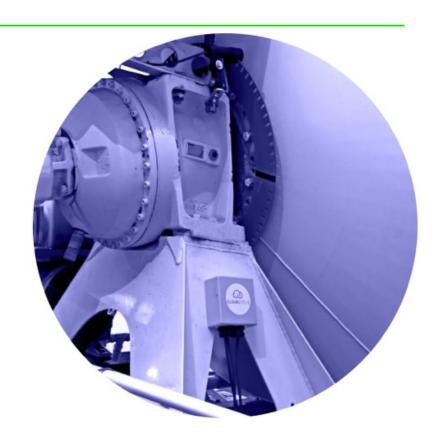


Concrete Digitised

- Quality
- Operations
- Environment



Full real-time insights into concrete quality, logistics & operations







Operational Improvements

- transparency for operations
- from the driver to the batch plant manage
- identify the individual performance of batch suppliers





Peter
Technical Manager
RMC



Reduction in manual slump tests (HS2)



Lower cost



Higher Coverage



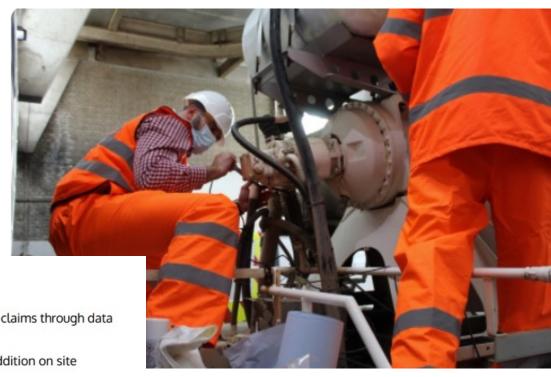
Accepted by customer





Quality Assurance

 Gain unprecedented control over the quality of your ready-mix concrete with real-time monitoring and prediction of concrete's characteristic from order to delivery.





John Shipping Manager RMC



Prevent/resolve small claims through data



Unauthorised water addition on site



Quality upon delivery



Reduction in rejected loads





- Avoid Waste
- Machine learning interventions, eg.adding water maintaining specification
- Minimise potential of a failed test.
- Reducing failed tests decreases costs to



RMC Technical & Operations





Last mile CO2 tracking



Realtime logistics insights
- Site waiting times





The Relationship

Between digitisation and quality management









30%	We can only verify as-built quality for 10% of the sites manually, causing problems for commercial fitouts.
70%	Time to market and schedule predictability are becoming increasingly important for us – we need to augment decisions with data-driven insights.
45%	If we could only reduce maintenance costs 5%, that'd pay for our rents and utility costs - now think what that means for a portfolio of 20bn globally!
80%	Life cycle digital twins that serve as a single-source-of truth are core to our partner's and our digital strategy.
65%	We need to reduce construction waste and operate better, but we don't even know how to track our CO2?









Site Data



OR

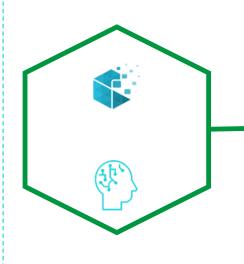






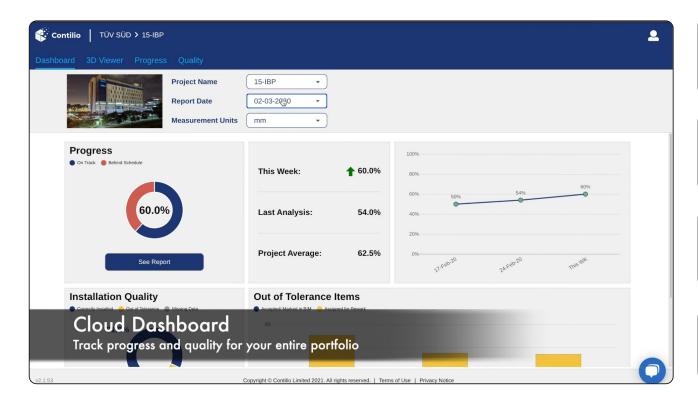
360 Image

Contilio 3D Al Analysis and Reporting









Automated, Al Powered Construction Progress

Automated, Al Powered Installation Quality

Semantic and Structured Construction Twin

Automated Schedule & BIM Integration and Updates

And more...

What is in the near future









Geospatial Commission (OFFICIAL)

Innovate UK





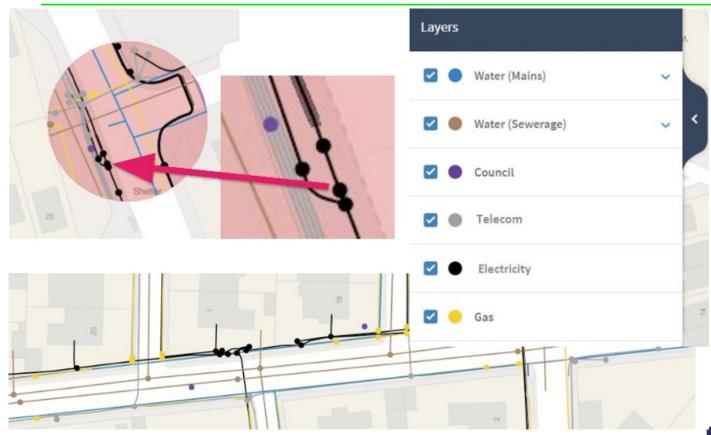






















Why Innovation MUST Come with Assurances?

Or does Digital Innovation not provides Assurances?





Questions?





Thank You

8th February 2022

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