

# Using Forge to revolutionize coordinated project information

Dr Stephen Hamil, Innovation Director at NBS

## NBS

NBS are committed to offering distinctive, innovative, specification and information solutions to construction industry professionals and are proud to be leading the construction industry in its digital evolution.



Find out more: [theNBS.com/about-nbs](http://theNBS.com/about-nbs)

## Stephen Hamil

Stephen is Innovation Director at NBS. He first started working on NBS products in 1999 and has played a big part in all of the major product developments over the years.



Follow Stephen on Twitter: [@StephenHamilNBS](https://twitter.com/StephenHamilNBS)

## 1. State of the industry

With respect to information sharing and collaboration, the construction industry is still largely a paper or PDF based industry.

It is true, that cutting edge technology is used and information is modelled in databases – however, this rich information is lost the moment it is sent to the printer or exported to PDF.



		
<p>13-21% in savings</p>	<p>14-16% in productivity</p>	<p>3. Digital will have the most impact</p>

We must and can do better.

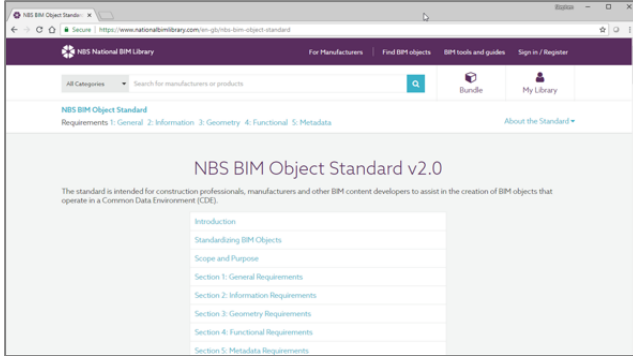
By adopting standardised structures for our data and adopting digital workflows, this rich information will then be of benefit to others working on the project and those managing the final built asset.

Recent global industry reports conclude that going digital will provide:

- Significant savings – [Boston Consulting Group](http://BostonConsultingGroup.com)
- Improvements in productivity – [McKinsey Global Institute](http://McKinseyGlobalInstitute.com)
- The greatest impact – [World Economic Forum](http://WorldEconomicForum.com)

## 2. Structuring information

Without structure, the benefits of the information developed will be little more than drawing generation and clash detection. A strategy for the [structure of objects](#) and [classification](#) is essential.

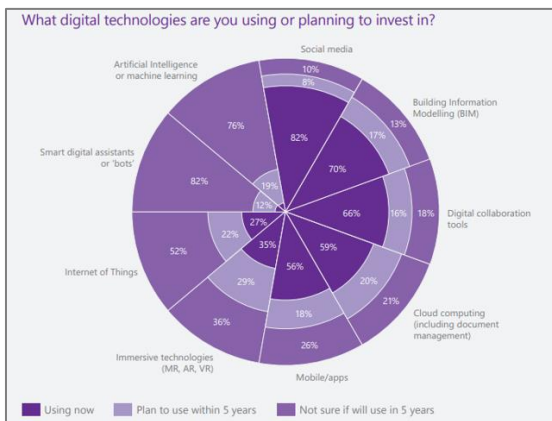


**13,400 classifications across 11 tables for all sectors**  
(Larger scale items - arranged broadly by industry sector and function)

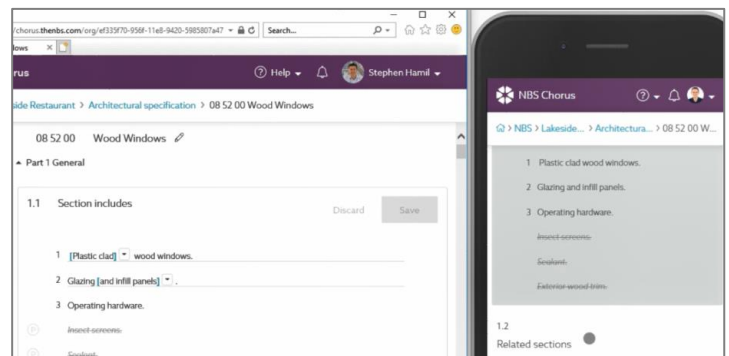
10 Preparation and repair	20 Administrative, commercial and protective services	25 Cultural, educational, scientific and information	30 Industrial	32 Water and land management	35 Medical, health, welfare and sanitary	40 Recreational	42 Sport and activity	45 Residential
50 Waste disposal	55 Piped supply	60 Heating, cooling and refrigeration	65 Ventilation and air conditioning	70 Electrical power generation and distribution	75 Communications, security, safety and protection	80 Transport	85 Operation and maintenance	90 Circulation and storage

## 3. The cloud and connecting information

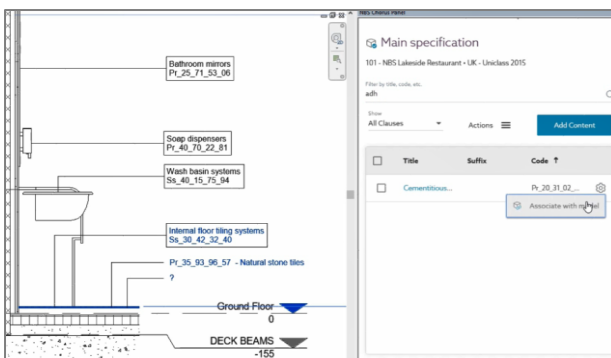
An [NBS report for Microsoft and RIBA](#) indicated that the UK construction industry was reaching a key point in its journey with BIM, the cloud, digital collaboration and mobile tech. Examples below show this in action using the latest technology from both NBS (Chorus) and Autodesk (Revit and Forge).



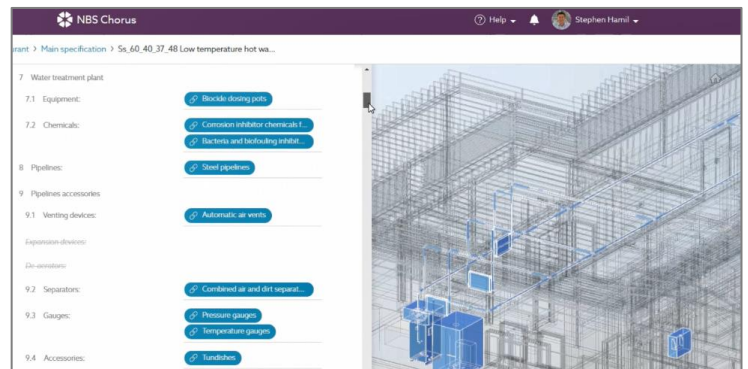
[Emerging technology](#)



[Collaborative, cloud spec writing](#)



[Spec writing from model environment](#)



[Model viewing from spec environment](#)

By focusing on standardized information and the latest digital technology for collaboration, we can significantly change the industry we work in for the better.