D-COM Consultation

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Thank you for agreeing to participate in the D-COM Consultation.

Two of the key goals of the D-COM Network are:

- Consult with stakeholders (to include academia, industry and policymakers) to identify prospective use cases and gather requirements.
- Grow the D-COM network, incorporating new members to ensure the widest coverage of academia/industrial and policy makers as possible.

Working towards these objectives, this consultation is designed to understand the present capabilities, short falls and efficacy of compliance systems along with the current attitudes and industry readiness for the digitisation of regulations and compliance checking. Additionally, this consultation will attempt to elicit the opportunities and blockers in the development of these technologies.

Respondants to this consultation will also have the opportunity participate further in the D-COM network, firstly in our consultation event later in year. Thus, starting to build a community around this important topic.

More information on DCOM and this consultation is available here.

All data collected in this survey will be held securely in accordance with the data protection act and GDPR regulations. Personal data collected (your e-mail address) will only be used to contact you in follow up to this survey, and this will only happen if you allow it. Cookies and personal data stored by your Web browser, are not used in this survey.

Page 2: Definitions

The D-COM Network is considering the digitisation of compliance checking in the built environment. The includes the checking of compliance with:

Regulations: Rules or directives made by an authority i.e compliance with legislation.

Requirements: Necessary conditions i.e. compliance with requirements set as part of a project brief.

Recommendations: A suggestion or a proposal, often, but not always put forward by an authority, but to which compliance is not mandatory i.e. recommendations within BREEAM sustainability assessment.

It should also be noted that D-COM is considering any built environment asset (i.e. buildings and infrastructure) across their entire lifecycle (from design to demolition).

Page 3: Potential of Automated Compliance Checking by 2025

Please answer the following questions considering the potential of automated compliance checking by the year 2025.

1. From a technology perspective, which target is possible by 2025? ✱ *Required*

- ○ 0 - No Automation: The current document and drawing based procedures are adequate
- ○ 1 - Automated Information Exchange: Automating submission of project information for regulatory compliance
- ○ 2 - Automated Validation: Automating the checking of information for completeness prior to compliance checking.
- ○ 3 - Partial Automated Assessment: Automatic assessment of some key regulations.
- ○ 4 – Automated Assessment: Fully Automated assessment, but requiring final human approval.
- ○ 5 - Full Automation: Fully automated compliance checking.

2. In your opinion, what are the technological limitations today? If there are limitations, what work is required to overcome these?

3. From a commercial perspective, how far is this process viable by 2025? ✱ *Required*

- ○ 0 - No Automation: The current document and drawing based procedures are

adequate

○ 1 - Automated Information Exchange: Automating submission of project information for regulatory compliance

○ 2 - Automated Validation: Automating the checking of information for completeness prior to compliance checking.

○ 3 - Partial Automated Assessment: Automatic assessment of some key regulations.

○ 4 – Automated Assessment: Fully Automated assessment, but requiring final human approval.

○ 5 - Full Automation: Fully automated compliance checking.

4. In your opinion, what are the commercial limitations today? If there are limitations, what work is required to overcome these?

5. From a political perspective, what is level of appetite required that will allow policy makers to affect change? ✳ *Required*

○ 0 - No Automation: The current document and drawing based procedures are adequate

○ 1 - Automated Information Exchange: Automating submission of project information for regulatory compliance

○ 2 - Automated Validation: Automating the checking of information for completeness prior to compliance checking.

○ 3 - Partial Automated Assessment: Automatic assessment of some key regulations.

○ 4 – Automated Assessment: Fully Automated assessment, but requiring final human approval.

○ 5 - Full Automation: Fully automated compliance checking.

6. In your opinion, what are the political and policy making limitations today? If there are limitations, what change is required to overcome these?

Page 4: Requirements for the adoption of automated compliance checking

7. With reference to future requirements for the adoption of automated compliance checking, please assign importance to the following technologies. ✱ *Required*

Please don't select more than 1 answer(s) per row.

Please select at least 3 answer(s).

	Essential	Highly Desirable	Desirable	Not Required
A. Shared open standards for regulation clauses.	☐	☐	☐	☐
B. Artificial intelligence to interpret between regulations/requirements and proposals, such as natural language processing	☐	☐	☐	☐
C. Rule processes to track decisions and uncertainty	☐	☐	☐	☐

8. Please describe any other technologies you feel are essential

9. With reference to future requirements for the adoption of automated compliance checking, please assign importance to the following commercial arrangements. ✱ *Required*

Please don't select more than 1 answer(s) per row.

Please select at least 5 answer(s).

	Essential	Highly Desirable	Desirable	Not Required
A. Brief and regulatory requirements to be contractually enforceable	☐	☐	☐	☐
B. Reduced costs for assessment	☐	☐	☐	☐
C. Faster turnaround for assessment	☐	☐	☐	☐
D. Ability to pre-check for compliance prior to formal submission.	☐	☐	☐	☐
E. As proposed/designed and as built structured asset information (i.e. BIM) to be required for non-domestic projects.	☐	☐	☐	☐
F. As proposed/designed and as built structured asset information (i.e. BIM) to be required for all projects.	☐	☐	☐	☐

10. Please describe any commercial benefits or cautions you feel are essential for automating regulatory compliance

11. With reference to future requirements for the adoption of automated compliance checking, please assign importance to the following positions. ✱ *Required*

Please don't select more than 1 answer(s) per row.

Please select at least 4 answer(s).

	Essential	Highly Desirable	Desirable	Not Required
A. Strict legal responsibility for compliance.	☐	☐	☐	☐
B. Primacy of structured asset information (i.e. BIM) over documentation and drawings for the purposes of compliance submission	☐	☐	☐	☐
C. Public right to see compliance assessments.	☐	☐	☐	☐
D. Standard data and criteria for social, environment and economic impact assessments	☐	☐	☐	☐

12. Please describe any other positions you feel are essential

Page 5: About You

Please provide us with some information about your background

13. What is your job title within your organisation?

[   ]

14. Please select all that apply to you:

- ☐ I have experience of compliance checking
- ☐ My role requires my involvement in compliance checking processes
- ☐ I have experience in using existing compliance checking software/tools
- ☐ I am involved in influencing or compiling regulatory compliance policy
- ☐ I am involved in compiling regulations

15. Please describe your technical experience of compliance checking

[   ]

16. Please describe your commercial position in compliance processes.

17. Please describe your professional role in compliance processes

18. Are you willing to take part in follow up activities organised by the D-COM Network?
✱ *Required*

○ I am unable to participate in follow up activities

○ Yes, I'd like to be informed of the network outcomes in early 2019

○ Yes, I'd like to attend a consultation workshop towards the end of September 2018

19. If you selected to participate in follow up activities, please provide your email address:

Page 6: Final page

Thank you for completing this questionaire. If you indicated you wish to contribute further we will be in touch in due course.

In you have any questions, or wish to withdraw your contribution please contact the network leader Dr Tom Beach (BeachTH@cardiff.ac.uk) or info@dcom.org.uk

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