

Work Smarter - Not Harder

Automation in the AEC Industry

About Us

About Us



Holger de Groot

- CEO & Founder - Pansanté Australia
- Board of Directors - buildingSMART Australasia
- Sessional Lecturer - University of New South Wales

As the CEO and Founder, my role is to manage the day-to-day operations of Pansanté Australia. I am responsible for advising our clients on their Digital Transformation strategies, interacting with various disciplines and advising on BIM matters at all levels.



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About Us



Maciej Wypych

- CTO & Co-Founder - Pansanté Australia
- Co-Founder - Dynamo User Group Sydney
- Sessional Lecturer - University of New South Wales

As the CTO and Co-Founder, my role is to supervise and develop the Digital Strategy at Pansanté Australia. I am responsible for implementing and advising our clients on their Digital Transformation and BIM implementation strategies.



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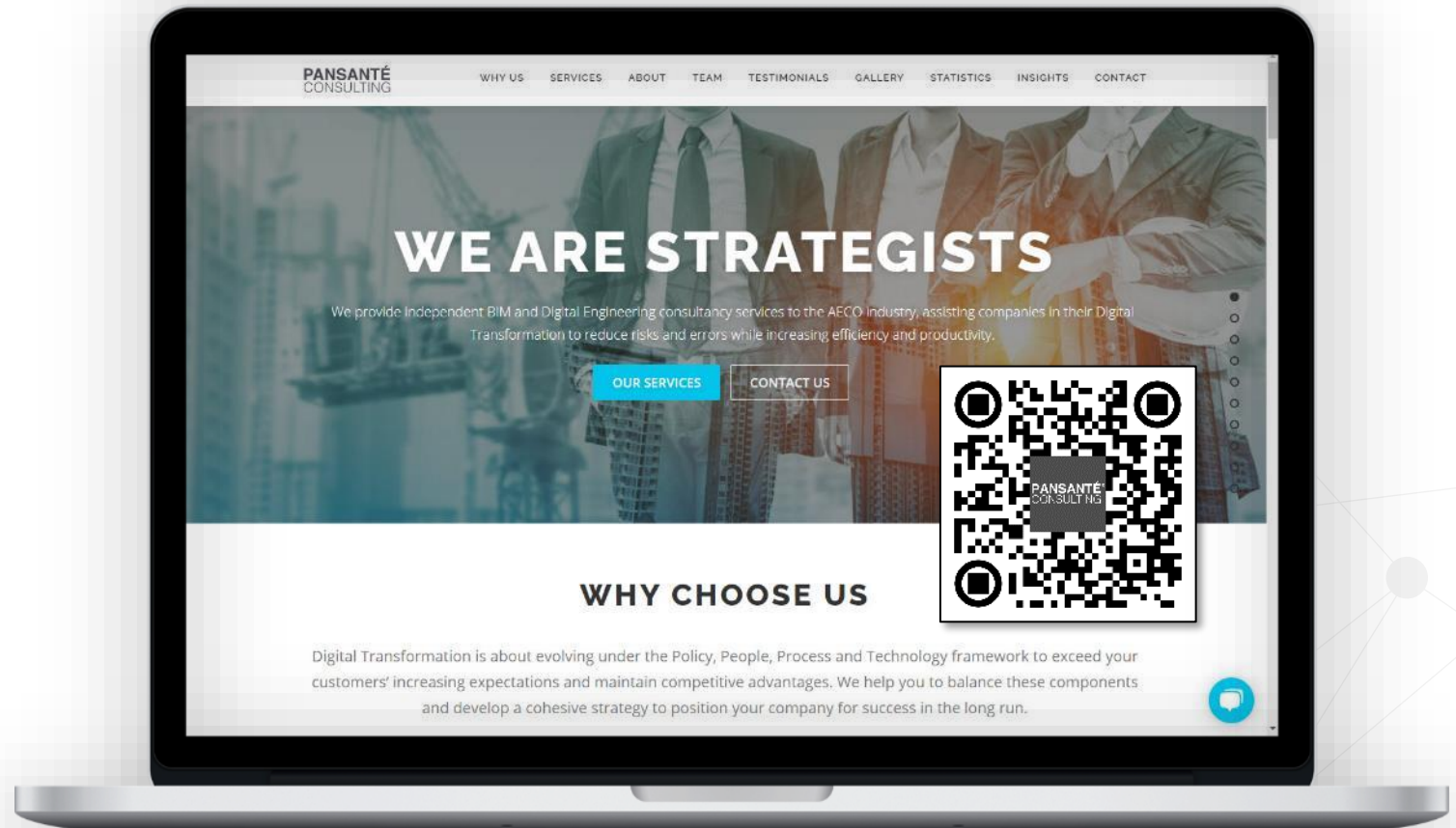


Independent Consultancy

Building Information Modelling (BIM) and Digital Engineering (DE) are increasing in demand within the AECO industry.

For more than 10 years, we have supported companies and professionals around the world with their Digital Transformation.

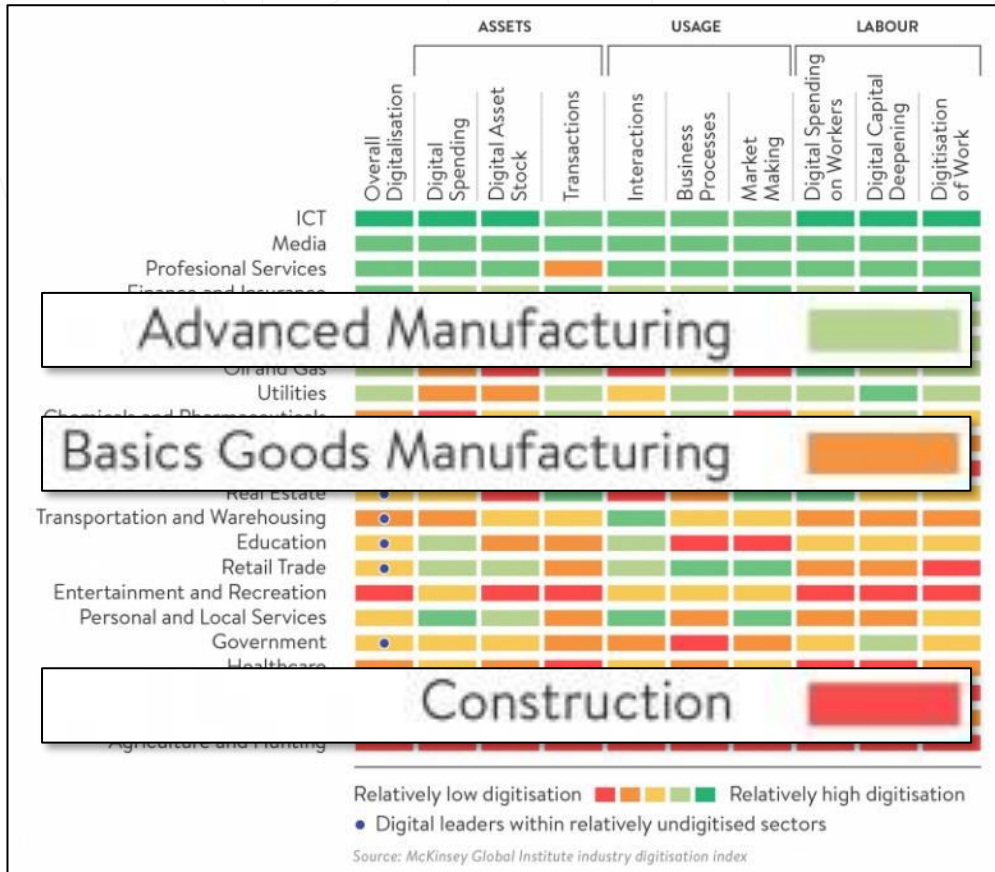
In August 2020, we have founded Pansanté Australia to provide the support companies across the AECO industry require to take their team to the next level.



Independent Consultancy



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Automation in the AEC Industry

Globally, the construction sector labour-productivity growth averaged 1.0% per year over the last 20 years, compared with 2.8% for the total world economy and 3.6% for manufacturing. Source: [MGI 2017](#)

Part of the problem is that the construction industry is notorious for being technologically challenged, but there has been a growing appetite for digital technologies and in developing new skills in the current and future workforce.

Automation is less likely to diminish employment opportunities than it is to increase productivity. There are three primary opportunities for automation in the AEC industry.

Automation

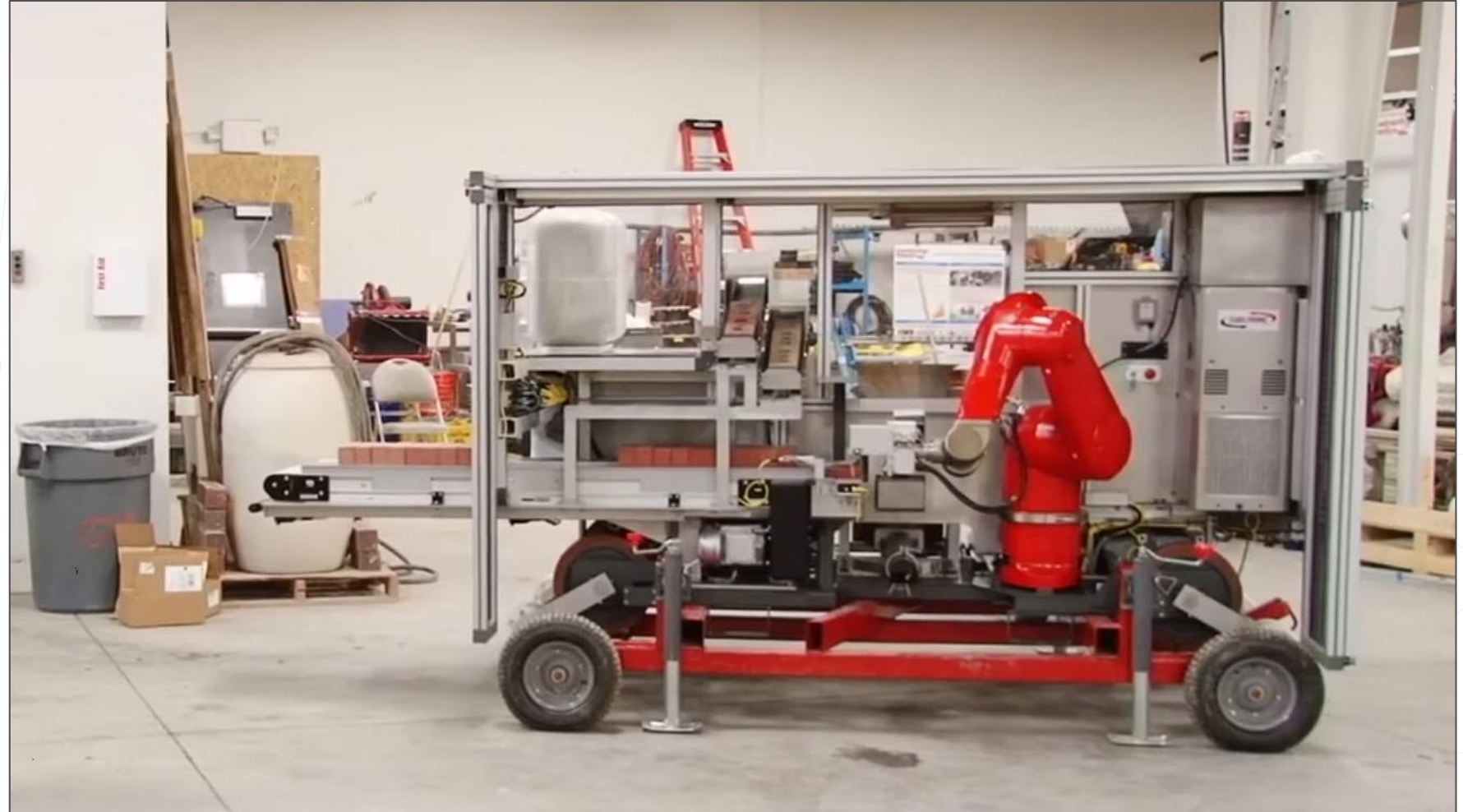
Physical Tasks On-Site

Semi-Automated Mason

The first is automation of traditional physical tasks on-site. Such as ...

robots laying bricks ...

Source: [Semi-Automated Mason](#)



Printing Roads

The first is automation of traditional physical tasks on-site. Such as ...

robots laying bricks ...

Source: [Semi-Automated Mason](#)

... or machines paving roads.

Source: [GSX RoadPrinter](#)

One major benefit is the potential a large increase in productivity.



Automation Modular & Prefab Construction

Robotic Fabrication

The second is automation of modular construction and prefabrication, including ...

large-scale robotic fabrication ...

Source: [Large-Scale Robotic Fabrication](#)



Modular Construction

The second is automation of modular construction and prefabrication, including ...

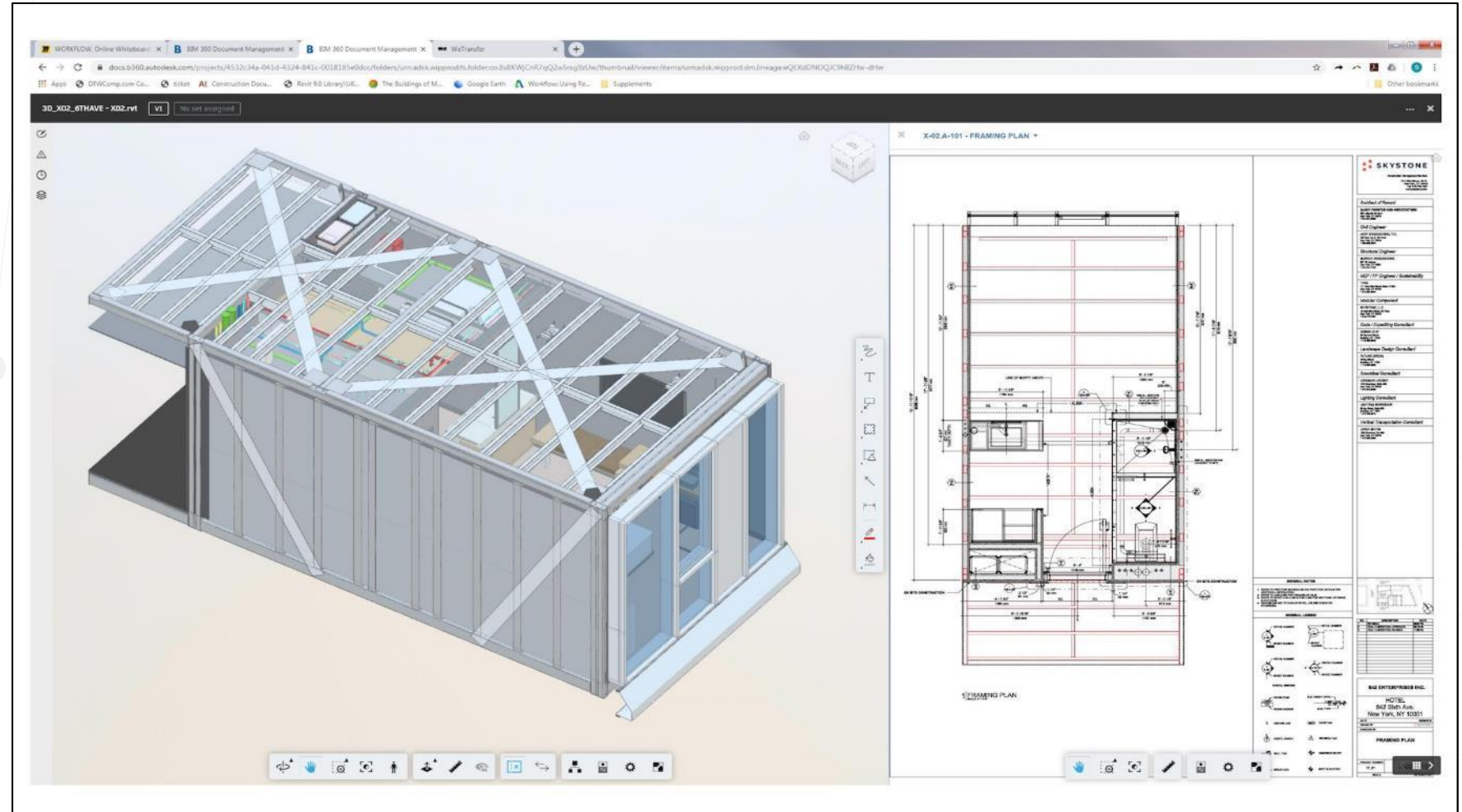
large-scale robotic fabrication ...

Source: [Large-Scale Robotic Fabrication](#)

... or modular construction.

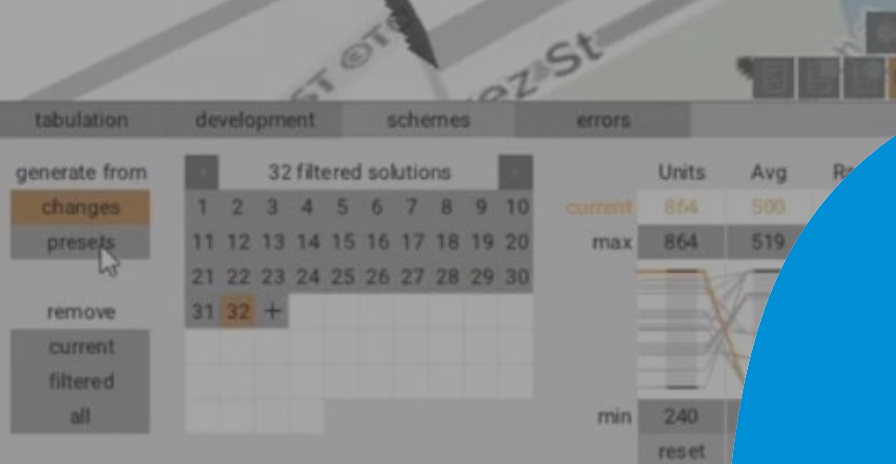
Source: [Modular Hotel](#)

Approximately 15% to 20% of new building construction will be modular by 2030.



Automation

Design, Planning & Management Procedures

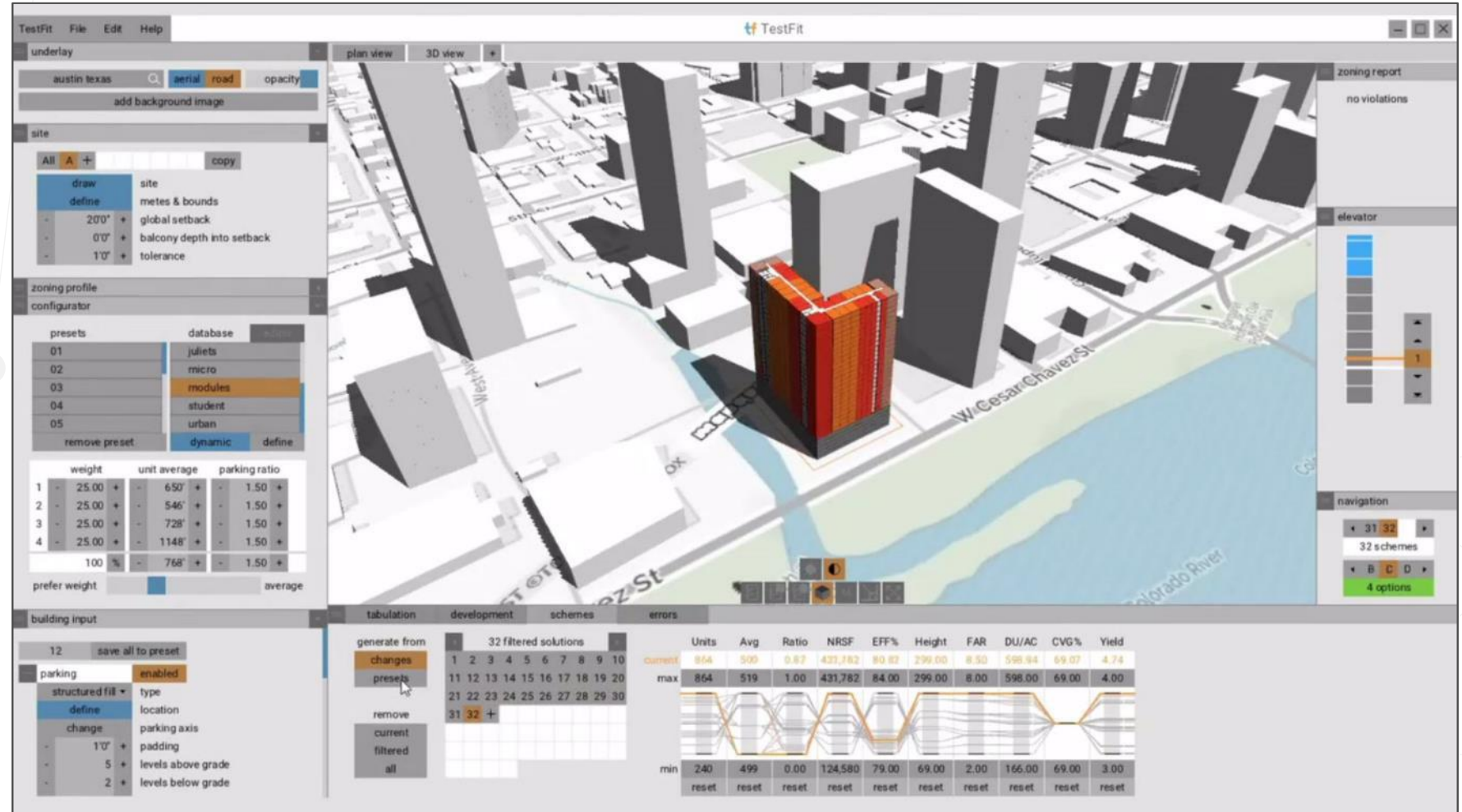


Design

The third centres on digital transformation and workflow automation in design, planning and management, including ...

generative design platforms ...

Source: [TestFit.io](https://testfit.io)



Planning

The third centres on digital transformation and workflow automation in design, planning and management, including ...

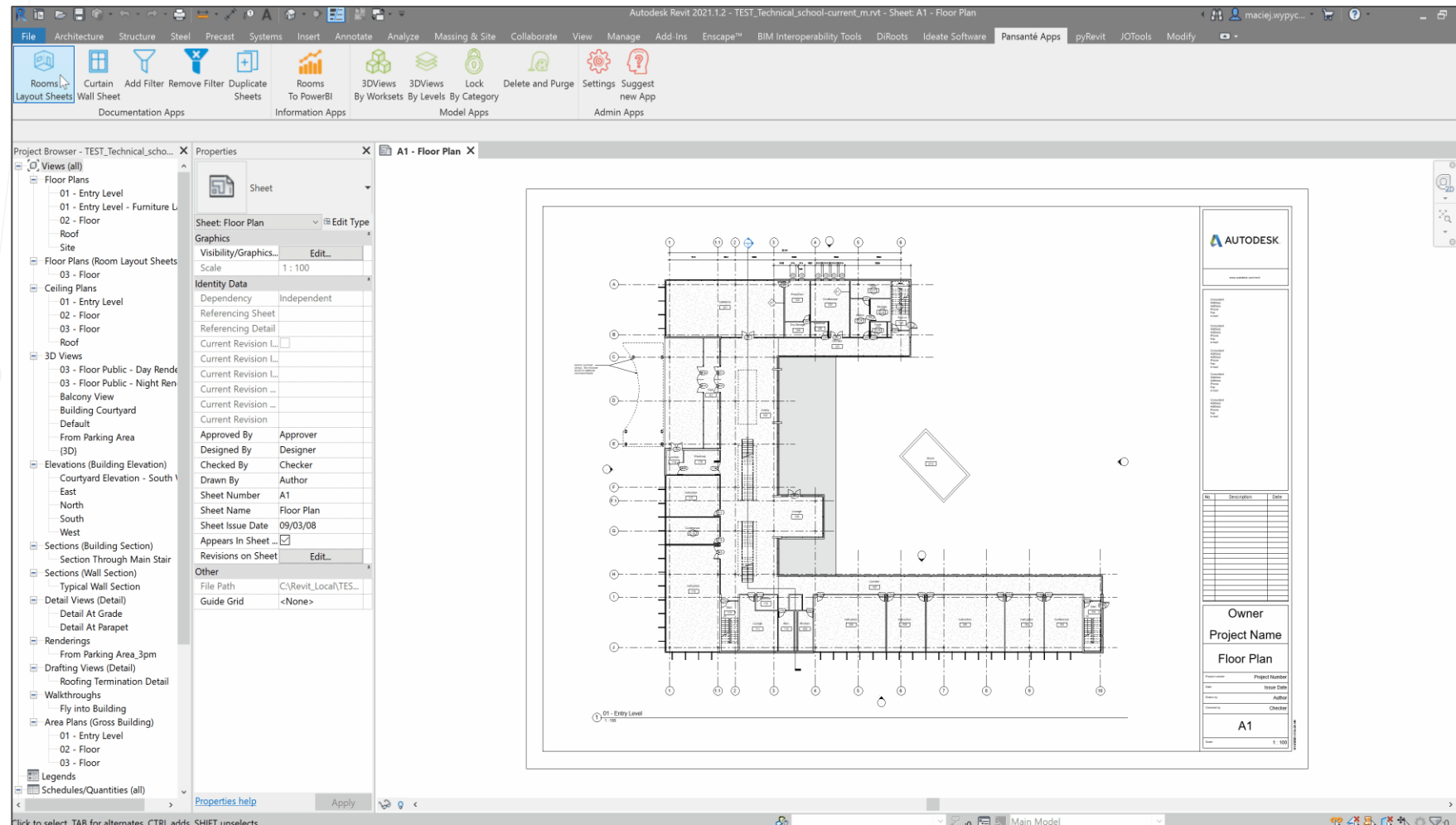
generative design platforms ...

Source: [TestFit.io](https://testfit.io)

... or documentation automation

Source: [Pansanté Australia](https://pansante.com.au)

BIM and DE are making the process of design, planning & management more efficient.

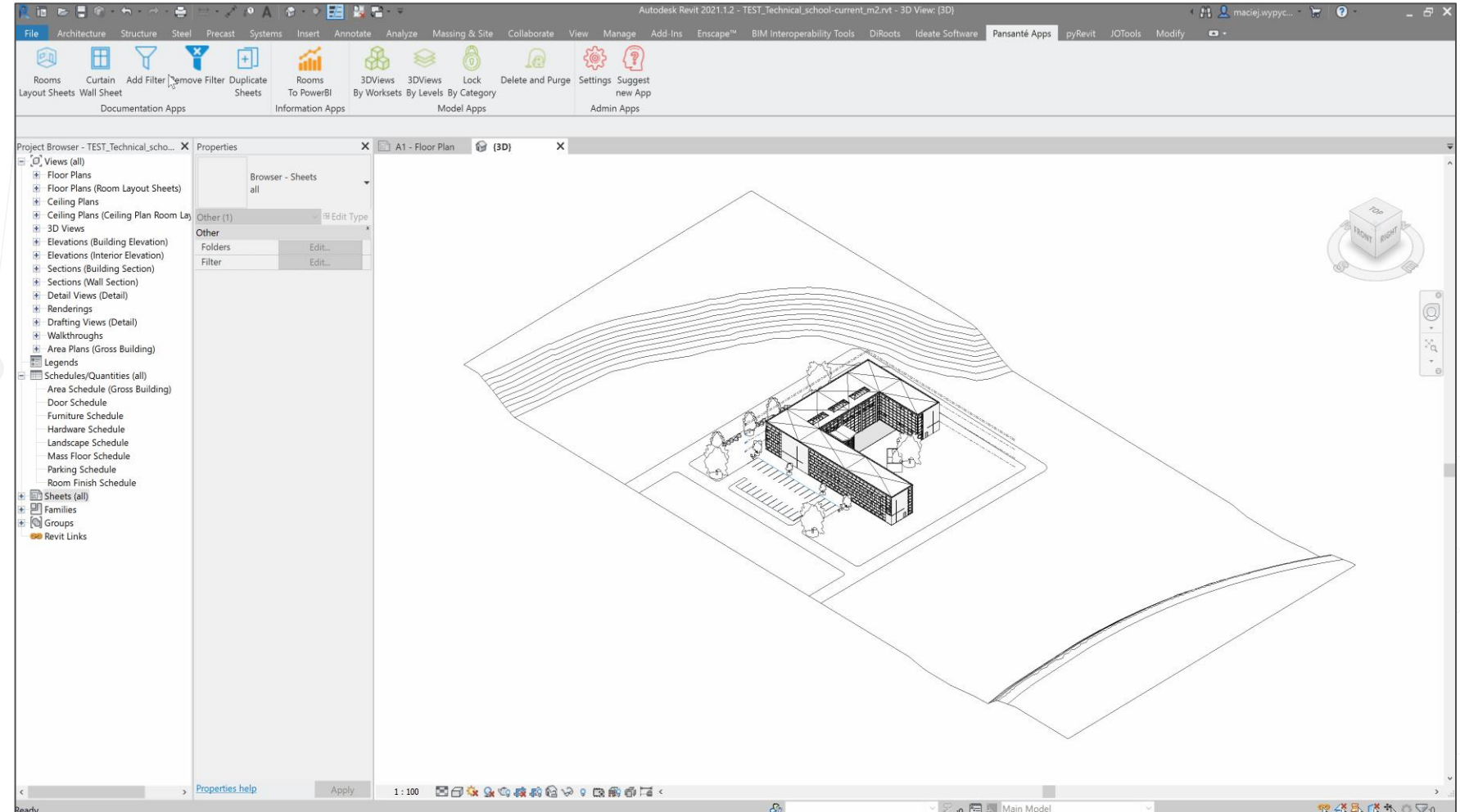


Management

Automation improves the consistency of output and quality of documentation.

Automated documentation and standardisation reduces risk and raise the overall quality throughout the design process.

Automation in the AEC industry improves efficiency and productivity.



Pansanté Apps

This Could be Your App

Q&A Session