

Industry needs survey

July 2014

A research study to define the building industry's information needs for the immediate and longer term



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1

Methodology and technical notes



Technical notes

- The research was conducted between 19th June 2014 and 17th July 2014 using an online questionnaire and included all key industry sectors: builders, architects, designers, building officials, engineers, consultants and other members of the building and construction industry
- Lists of names and email addresses were provided by BRANZ for industry members sorted by the relevant industry groups. Additionally, with the support of BRANZ / MBIE, we were able to obtain membership lists from Master Builders, Certified Builders, Building Officials Institute of NZ and Architectural Designers
 - Due to difficulty in obtaining the list from Master Builders these respondents were not invited to participate in the survey until the 4th July 2014
 - Due to confidentiality concerns from NZIA, their members were sent survey invites by NZIA rather than TNS
- Three reminder emails (27th June, 4th July, 11th July) were sent to respondents who had not yet completed the survey. Note that NZIA members were unable to be sent reminders due to completion information not being available for membership lists managed externally
- Respondents were offered an incentive to complete the survey by way of a prize draw for one of three iPads
- A total of 1,077 responses were achieved representing a response rate of 11%. This is considerably lower than the number of responses achieved in 2012 when 2,405 responses were achieved representing a response rate of 25%. This decline in participation is likely a result of:
 - Increased interview duration – the online survey averaged 46 mins this year compared to 36 minutes in 2012
 - Less time in field – the survey was open for 29 days this year compared to 39 days in 2012
 - Unavailability of the Master Builders list until the latter part of the survey period
- As participation in the survey is voluntary, there is potential for some groups to be over or under represented in the final data. For this reason work was undertaken to weight the final dataset to be reflective of the building industry population. The 2013 census occupation figures were used for this purpose
- The maximum expected margin of error (at 95% confidence) having taken into account the design effect from weighting the data to be representative of the population is +/- 3.8%. BRANZ can therefore be confident that despite the lower response rate, that the results of the study are highly representative of industry views and opinions

A total response of 1,077 completed surveys was achieved representing a response rate of 11%

Response rates by group (based on sample lists)

Group	Completed	Sent	Response rate
Builders ⁽¹⁾	438	5,605	8%
Building officials	259	1,102	24%
Designers	53	370	14%
Architects ⁽²⁾	270	2,565	11%
Consultants ⁽³⁾	24	149	16%
Others	5	96	5%
Key stakeholders	28	117	24%
Total	1,077	10,004	11%

NOTES:

1. Builders: due to a delay in obtaining a contact list for Master Builders members (n = 1,737), the survey was only open to this group for 13 days.
2. Architects were invited via a general 'open' link to the survey due to the NZIA being unable to provide a membership list. Reminder notices were unable to be sent to this group
3. Consultants: includes engineers, building surveyors



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The sample included a reasonably large number of responses for each of the key groups of interest

Sample structure (based on stated occupation)⁽¹⁾

Group	Responses	Proportion
Builders ⁽²⁾	379	35%
Building officials ⁽³⁾	246	23%
Architects ⁽⁴⁾	221	21%
Designers ⁽⁵⁾	87	8%
Consultants ⁽⁶⁾	61	6%
Others ⁽⁷⁾	83	8%
Total	1,077	100%

NOTES:

1. Weighted to 2013 Census building industry occupation figures
2. Builders: includes builders, contractors and sub-contractors, due to a delay in obtaining a contact list for Master Builders members (n = 1,737), the survey was only open to this group for 13 days.
3. Building officials: includes crown institute members, government department staff and local government personnel
4. Architects were invited via a general 'open' link the survey due to the NZIA being unable to provide a membership list. Reminder notices were unable to be sent to this group
5. Designers: includes draughts person and product specifics
6. Consultants: includes engineers, building surveyors
7. Others: includes educators and all others



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2

Executive summary



Executive summary

1

The industry is satisfied with the current body of knowledge with 60% providing evaluation scores between 5-7, however few consider the body of knowledge to be comprehensive (5%). Builders are more satisfied than other groups and consultants are the least satisfied

2

The current body of knowledge is perceived to be less adequate for '*new technologies*', '*building better communities*' and for '*meeting housing needs*'. Creating new knowledge for '*building better communities*' potentially represents a priority given its perceived importance and low evaluation

3

The most immediate concerns relate to building regulations and building compliance, followed by affordability. Various aspects of building regulations / codes are identified as requiring revision followed by matters relating to consistency / clarity of information and air/water tightness

4

Topics that the industry identifies as needing new knowledge for the longer term are '*better buildings*' and '*maintaining / improving existing buildings*'. Training and design / town planning are also suggested as areas in need of new information for the longer term

5

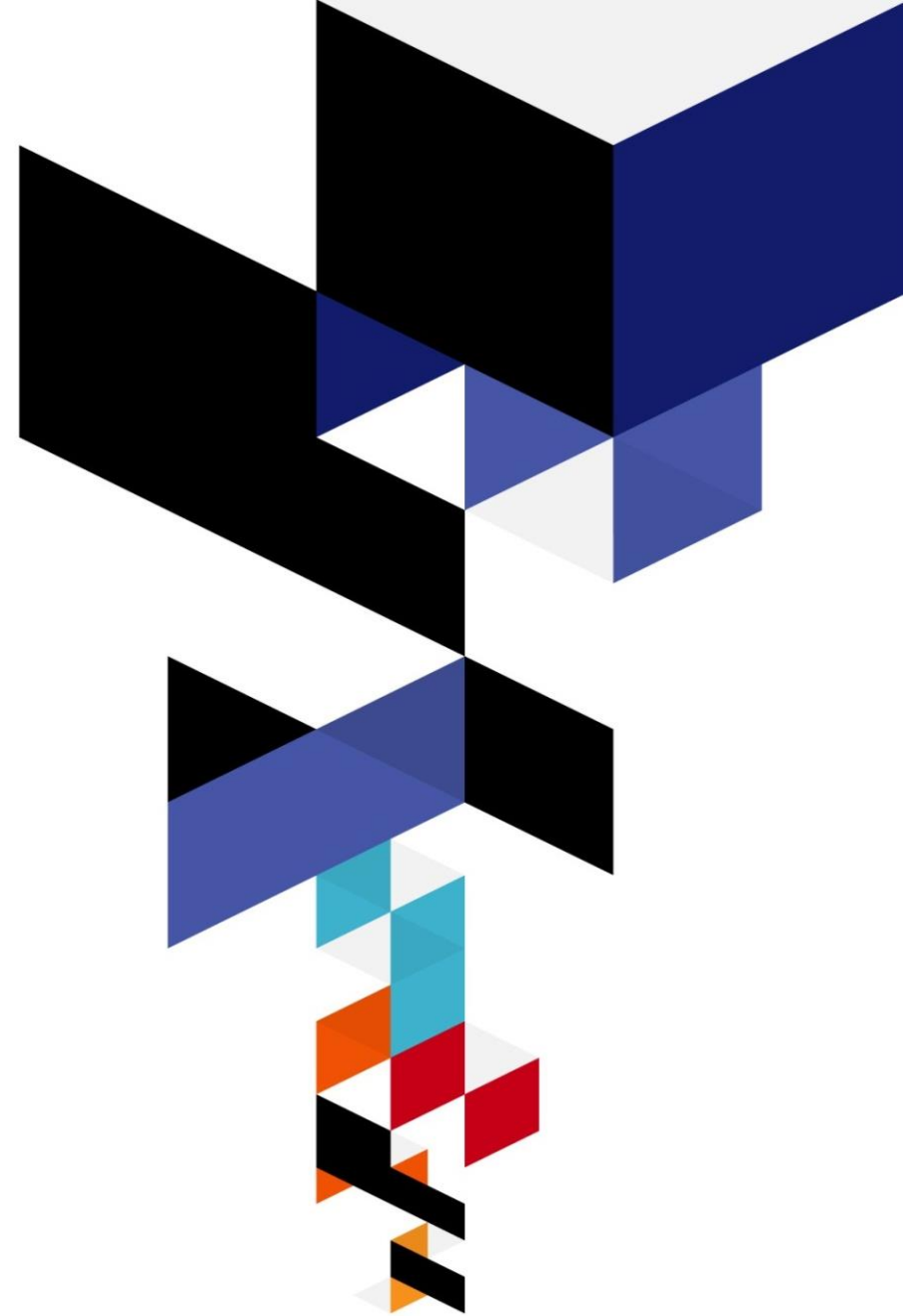
Information that is most frequently being sourced relates to product specifications and building codes and standards. The industry identifies that there is a need for more of this type of information to be available electronically

6

Builders and officials are more likely to experience difficulty accessing information relating to continuing professional development (CPD). Seminars are the most preferred method for obtaining CPD related information and online video is the least preferred

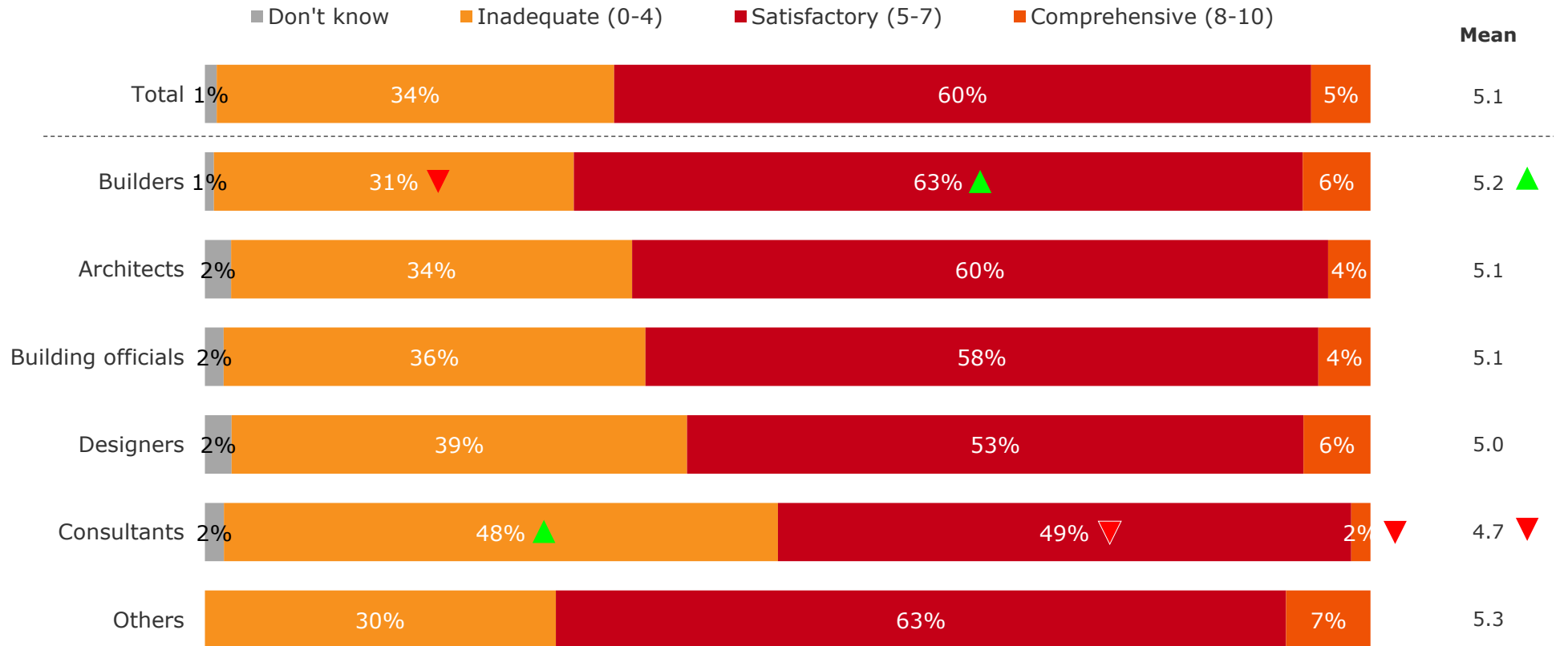
3

Information needs for the immediate future



Overall the current body of industry knowledge is seen as satisfactory, with builders the most satisfied and consultants the least satisfied

Overall adequacy of the current body of knowledge⁽¹⁾⁽²⁾

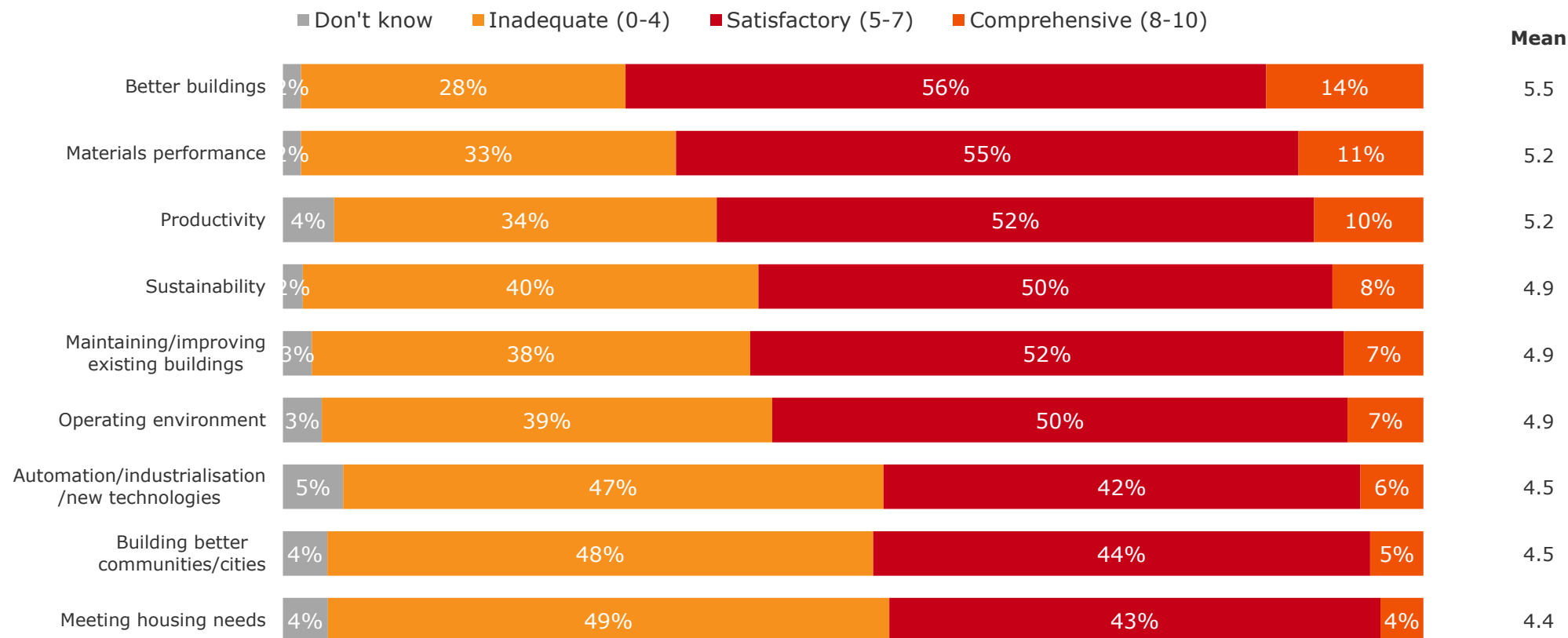


NOTES:

- Thinking overall about how adequate the current body of knowledge is across all major topic areas that we have discussed so far. How would you rate the overall adequacy of the entire body of knowledge across all of these topic areas? ▲ Significantly higher than total, ▼ Significantly lower than total
- Sample sizes: Total n = 1,077, Builders n = 379, Building officials n = 246, Architects n = 221, Designers n = 87, Consultants n = 61, Others n = 83

The topics currently seen to be the least adequate in terms of the body of knowledge are meeting housing needs, building better communities / cities and automation

Overall adequacy of the current body of knowledge⁽¹⁾⁽²⁾

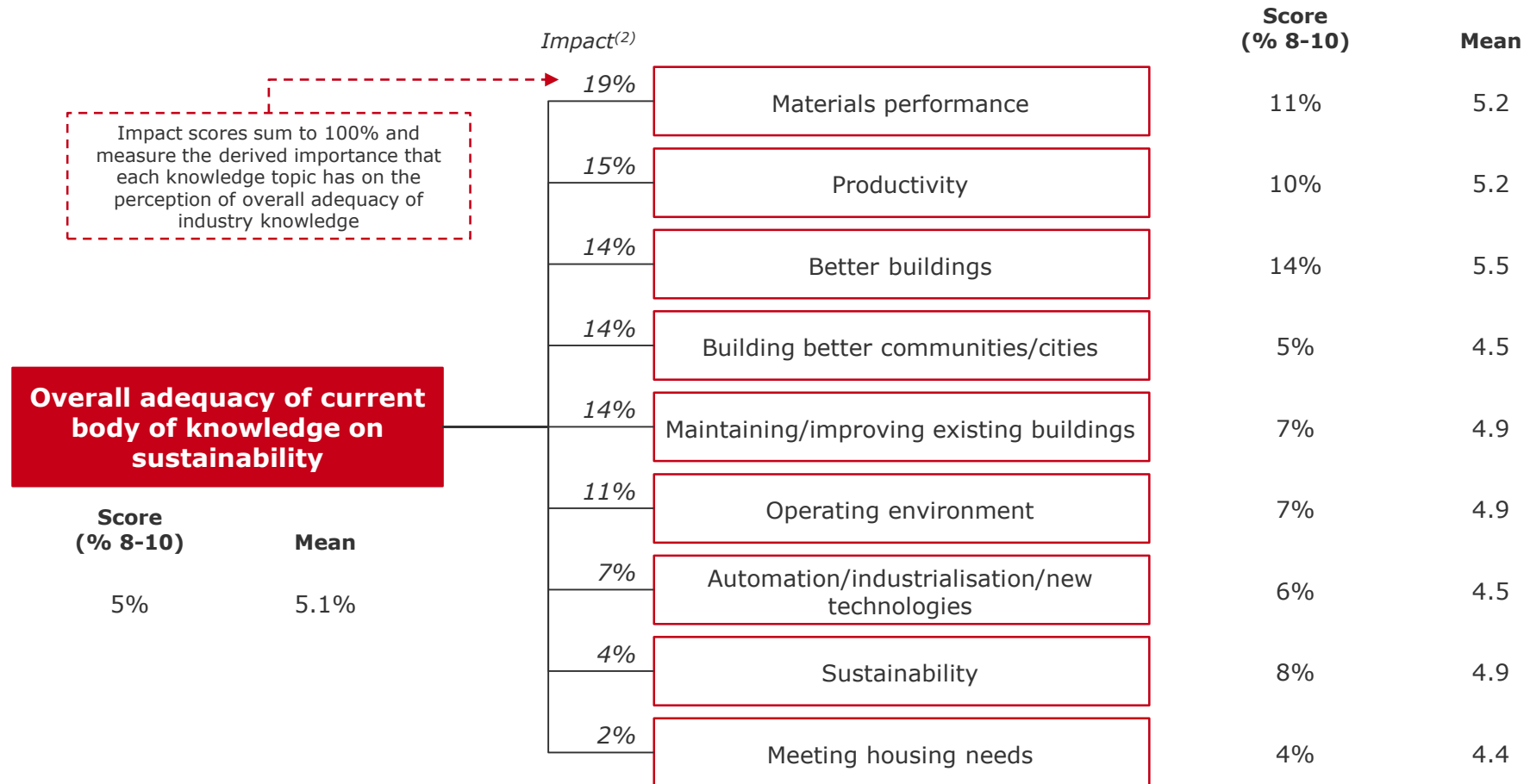


NOTES:

- Thinking overall about how adequate the current body of knowledge is across all major topic areas that we have discussed so far. How would you rate the overall adequacy of the entire body of knowledge across all of these topic areas?
- Sample size n = 1,077

The topics with the highest impact on overall adequacy of the current body of knowledge are materials performance and productivity, encouragingly these topics also perform relatively highly on current information adequacy

Drivers of perception of adequacy of the current body of knowledge⁽¹⁾

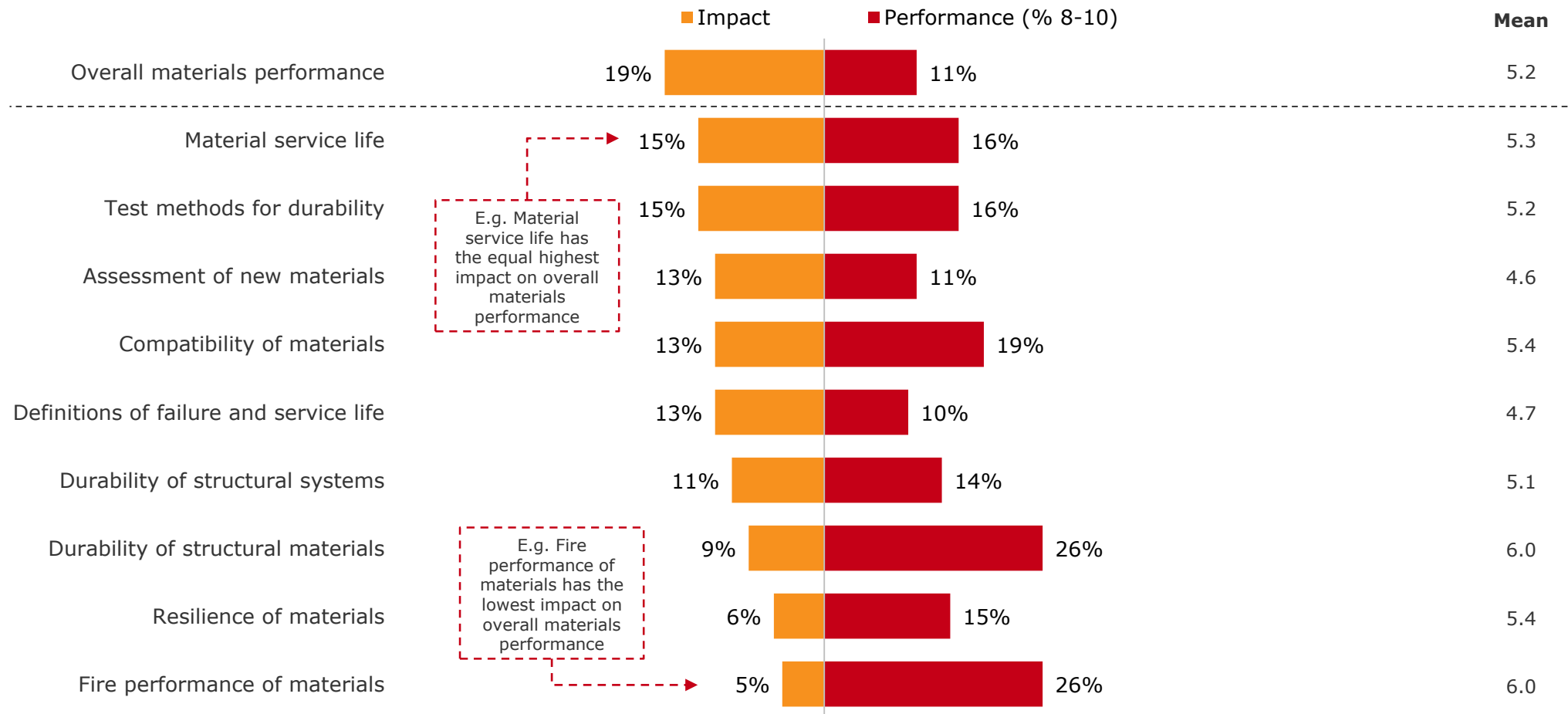


NOTES:

1. Sample size n = 1.077
2. Impact weights derived using regression analysis

Within the topic of materials performance, service life and durability tests have the highest impact on overall adequacy of materials performance knowledge

Materials performance: adequacy of current body of knowledge⁽¹⁾⁽²⁾



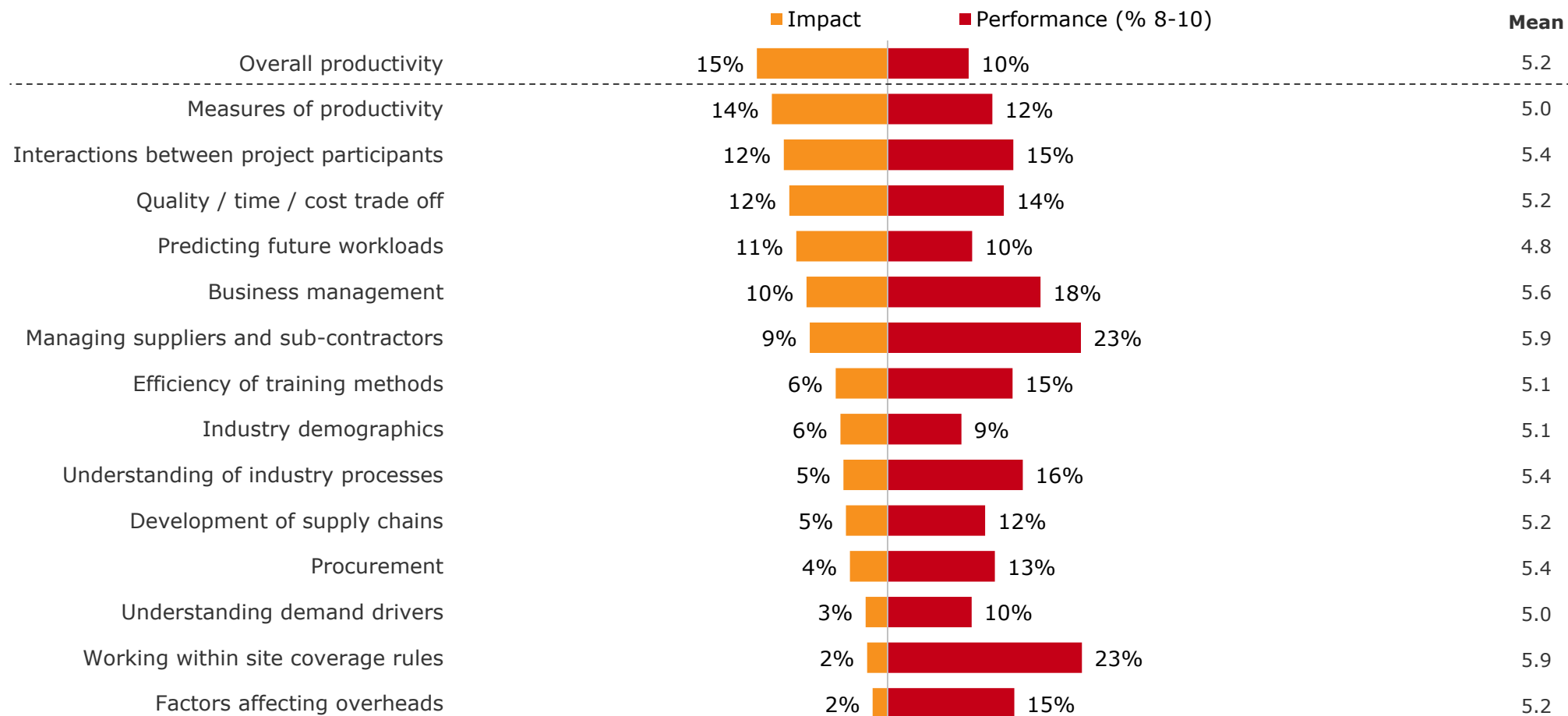
NOTES:

1. Sample size n = 1,077

2. Considering all these aspects, overall how would you rate the adequacy of the current body of knowledge on materials performance?

Within productivity, measures of productivity, interactions between project participants and quality / cost trade off have the highest impact on overall knowledge adequacy

Productivity: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. Considering all of these aspects, how would you rate the overall adequacy of the current body of knowledge on productivity?



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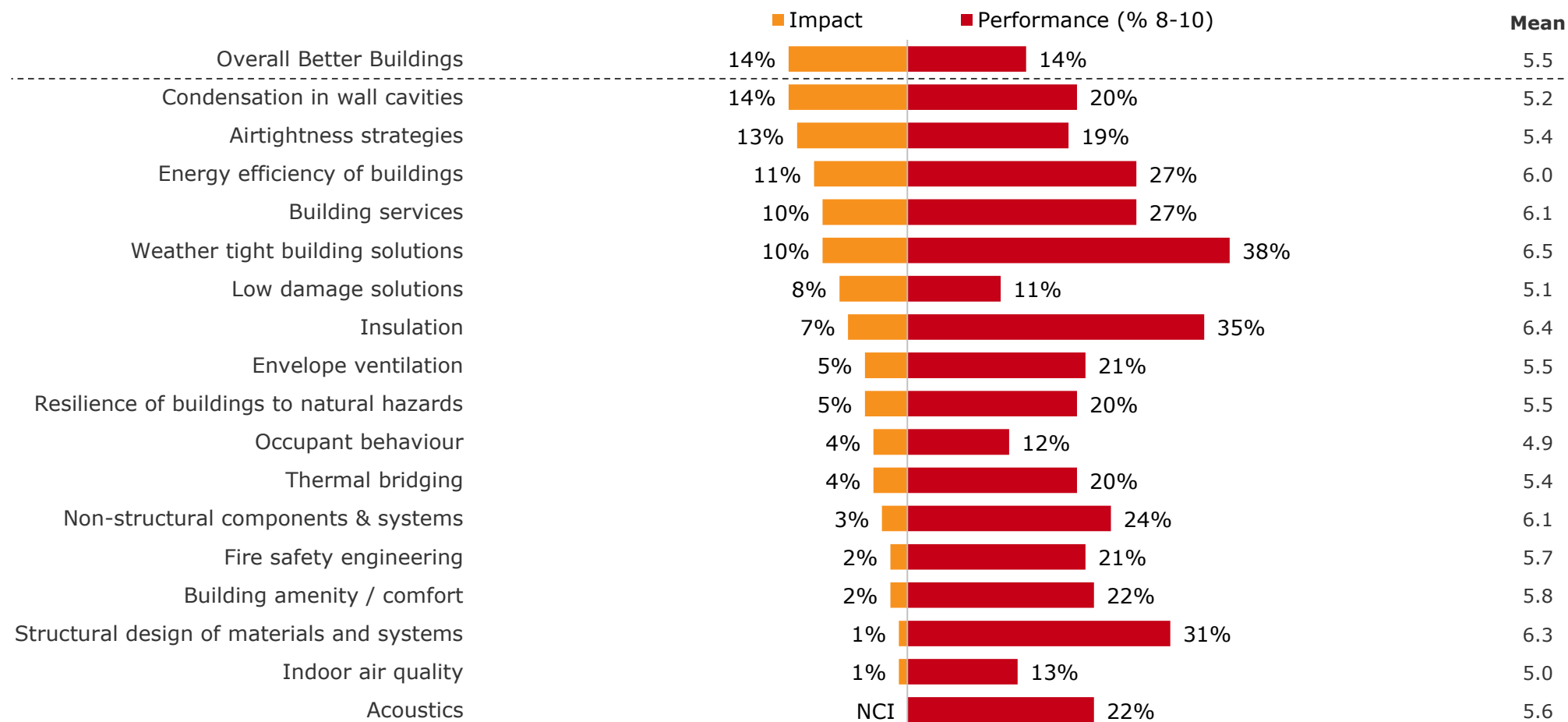


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Condensation in wall cavities and airtightness strategies have the highest impact within the topic of better buildings

Better buildings: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. Considering all of these aspects, overall how would you rate the adequacy of the current body of knowledge on Better Buildings?



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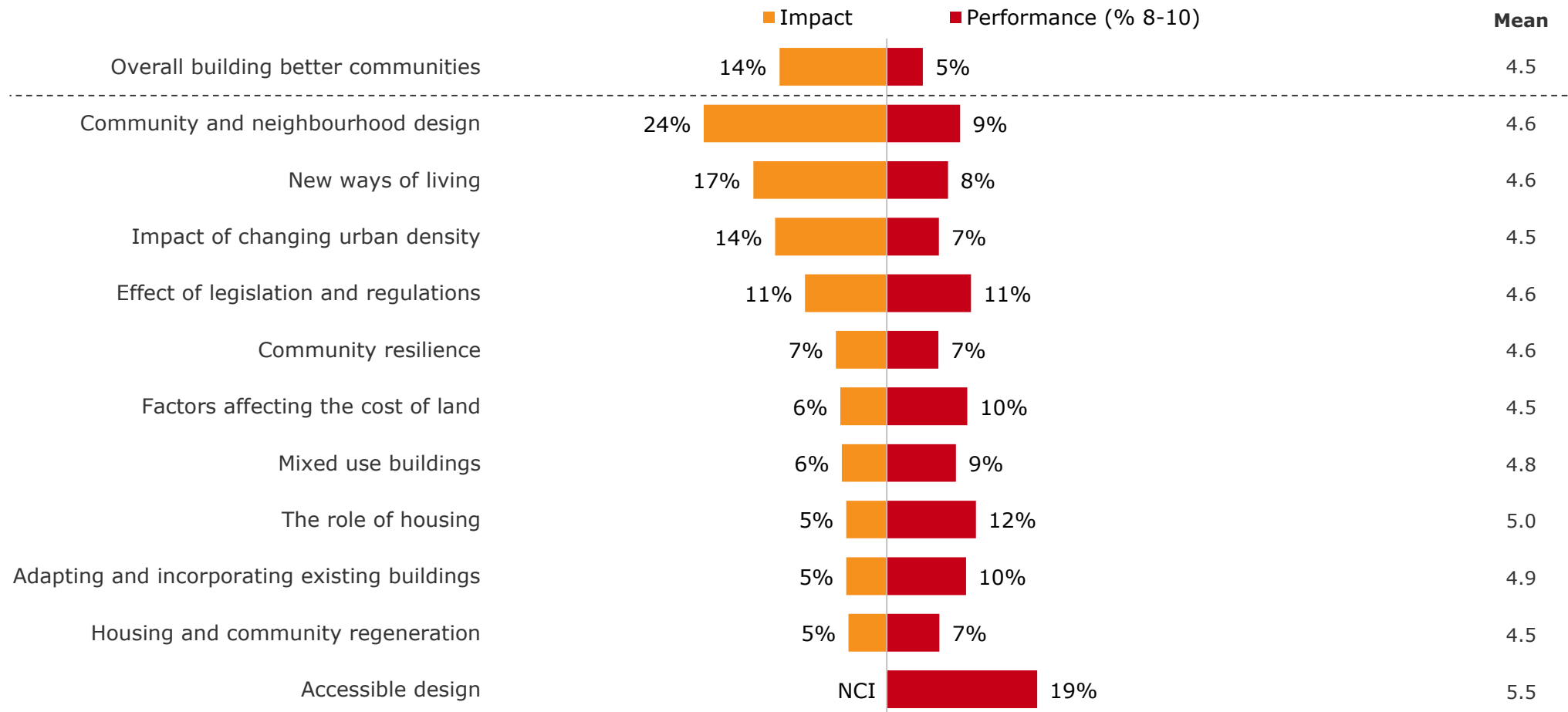
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Community and neighbourhood design is the most important aspect of the body of knowledge around building better communities

Building better communities/cities: adequacy of current body of knowledge⁽¹⁾⁽²⁾



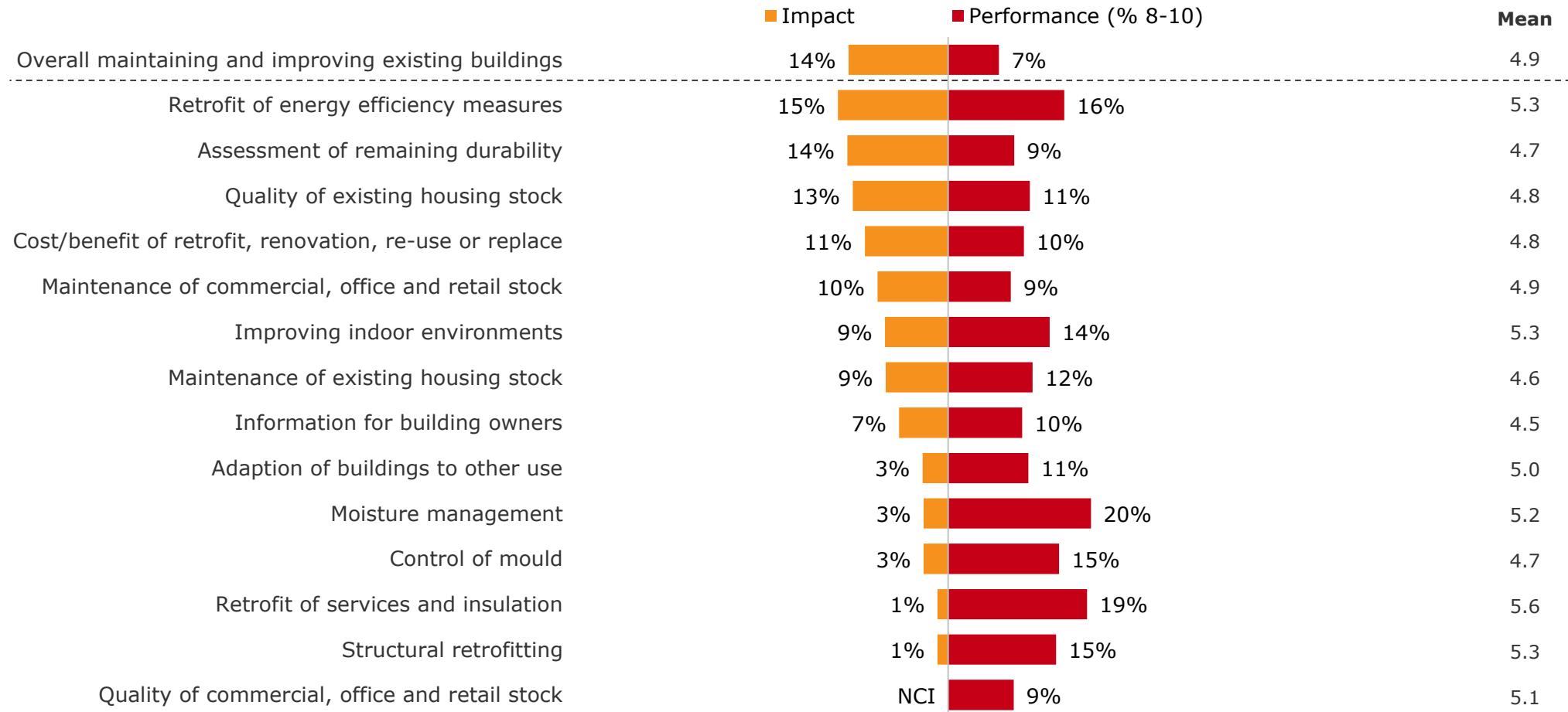
NOTES:

1. Sample size n = 1,077

2. Overall, considering all of these aspects about building better communities and cities, how would you rate the overall adequacy of the current body of knowledge?

For maintaining and improving the performance of existing buildings, the adequacy of the current body of knowledge is most effected by retrofit and energy efficiency measures

Maintaining and improving the performance of existing buildings: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. Considering all the aspects, how would you rate the adequacy of the current body of knowledge on maintaining and improving the performance of existing buildings?



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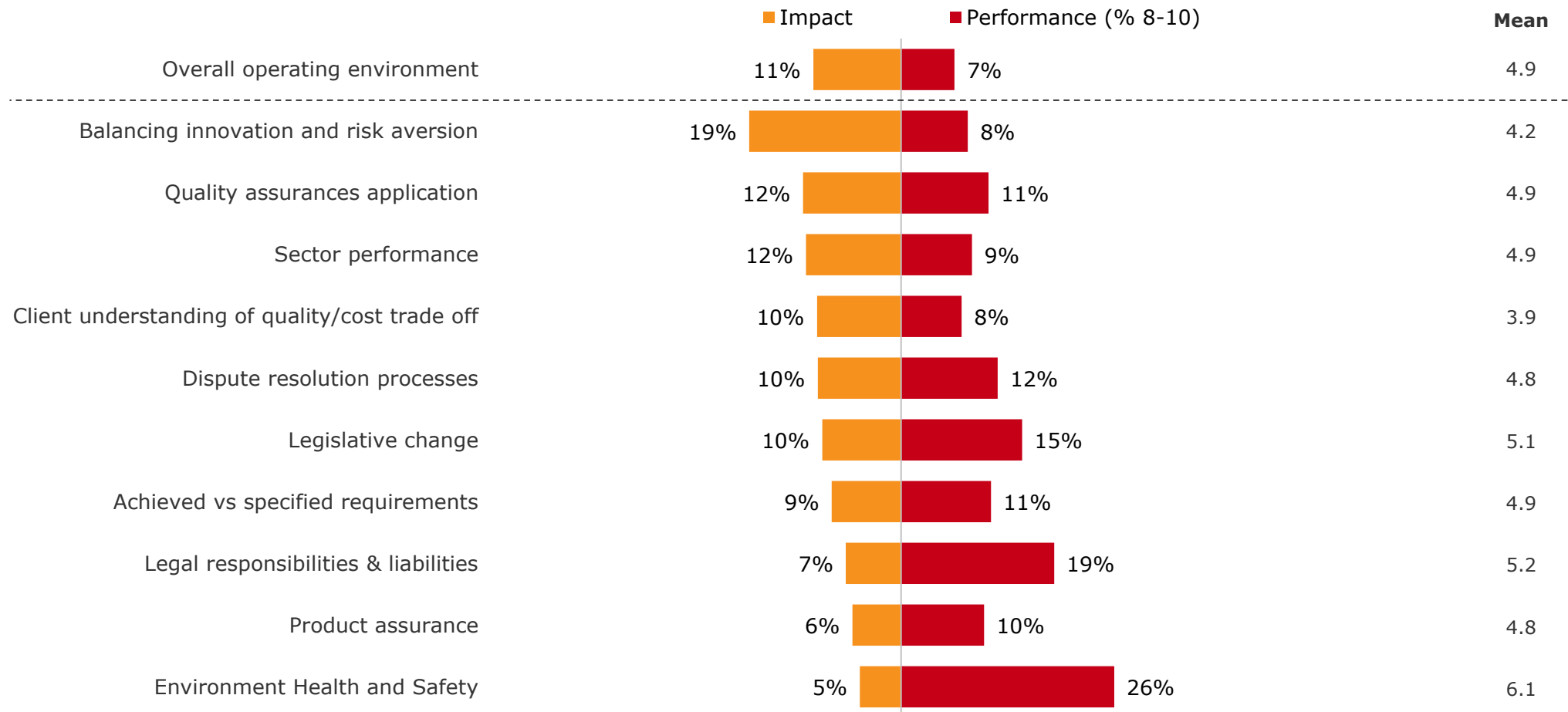


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Balancing innovation and risk aversion is the highest impacting aspect of the current body of knowledge around the operating environment

Operating environment: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. And overall, considering all of these aspects, how would you rate the adequacy of the current body of knowledge on the operating environment?



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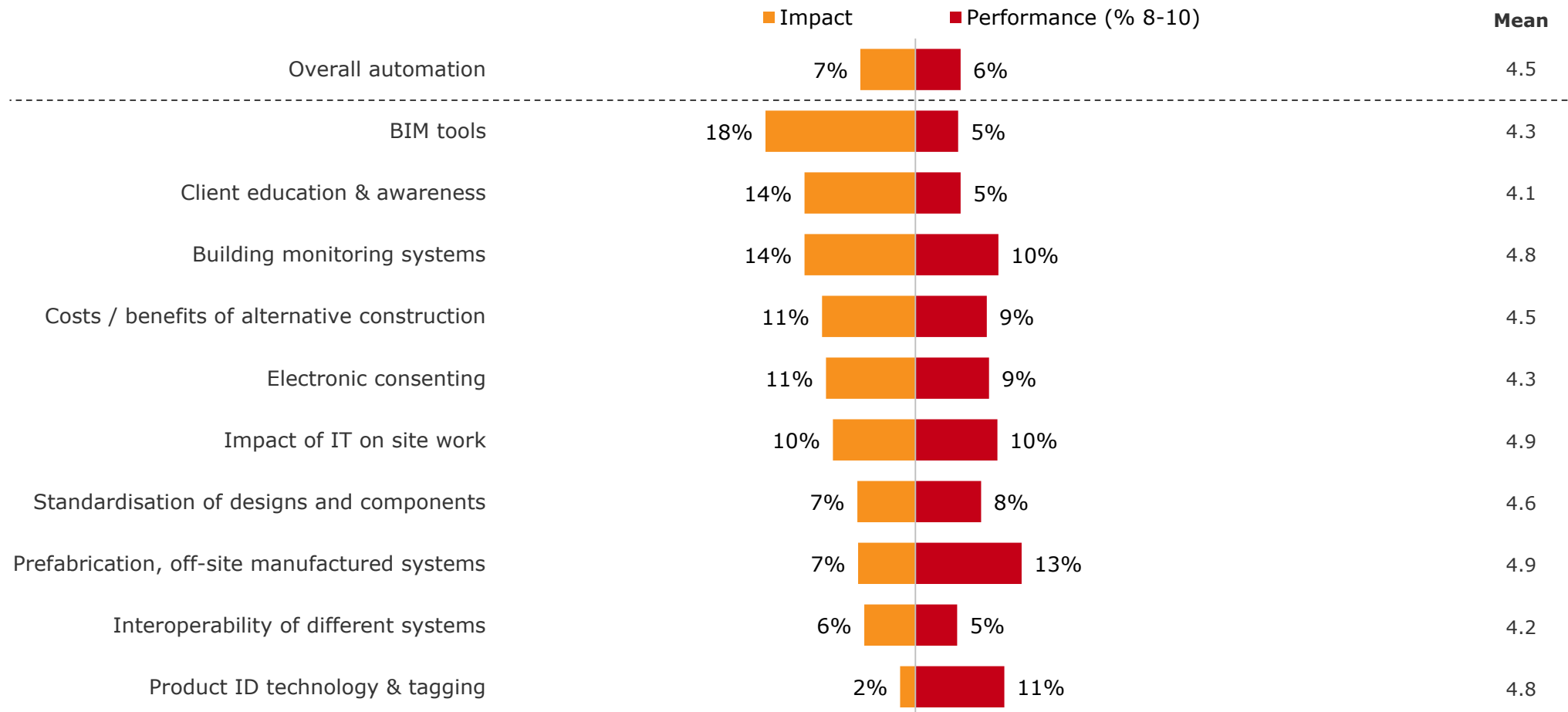


MBIE



Within the topic of automation, BIM tools has the most impact on perceptions of adequacy of automation knowledge

Automation, industrialisation and new technologies: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. Considering all these various aspects, overall how would you rate the adequacy of the current body of knowledge on automation, industrialisation and new technologies?



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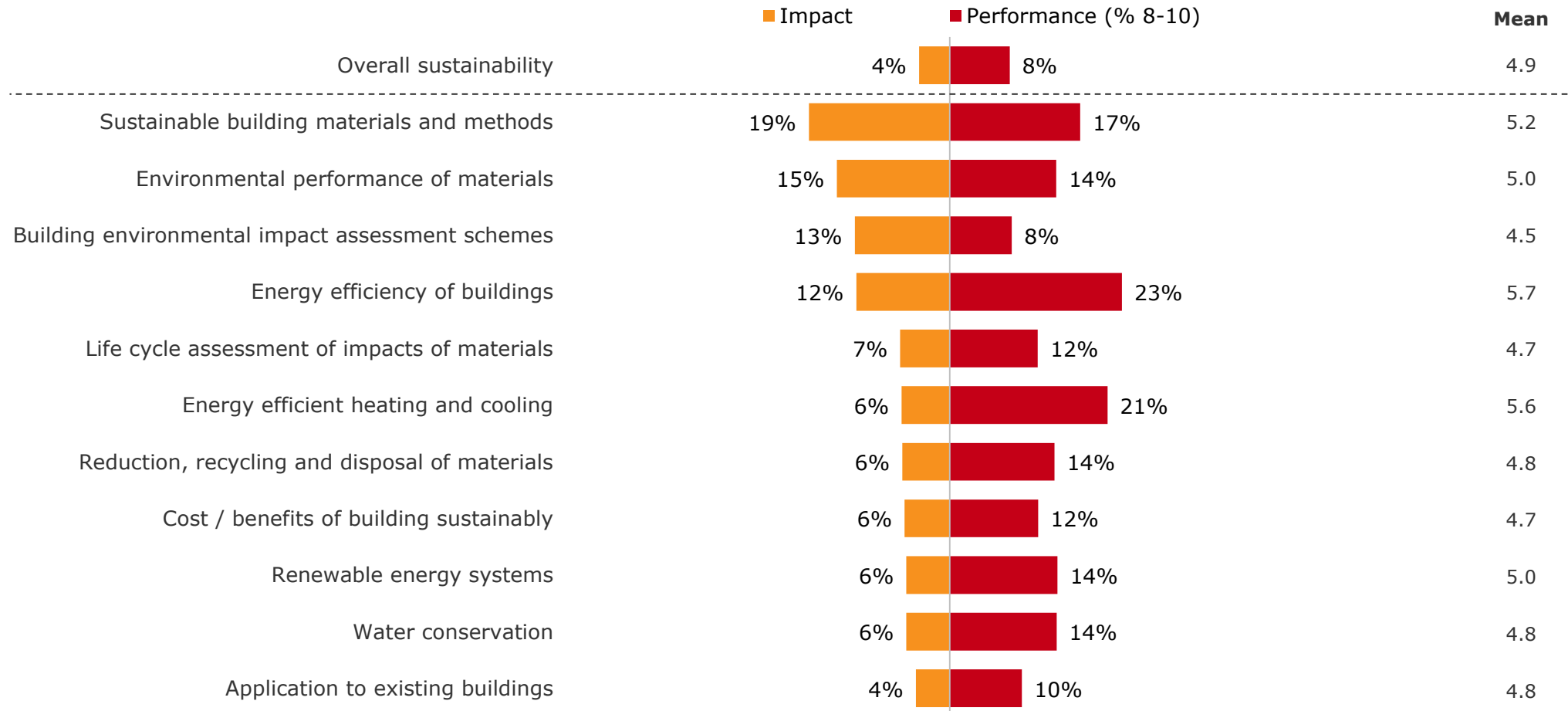


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Sustainable building materials and methods is the key sub-topic for knowledge around overall sustainability

Sustainability: adequacy of current body of knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. Considering all these aspects, how would you rate the adequacy of the current body of knowledge on sustainability?



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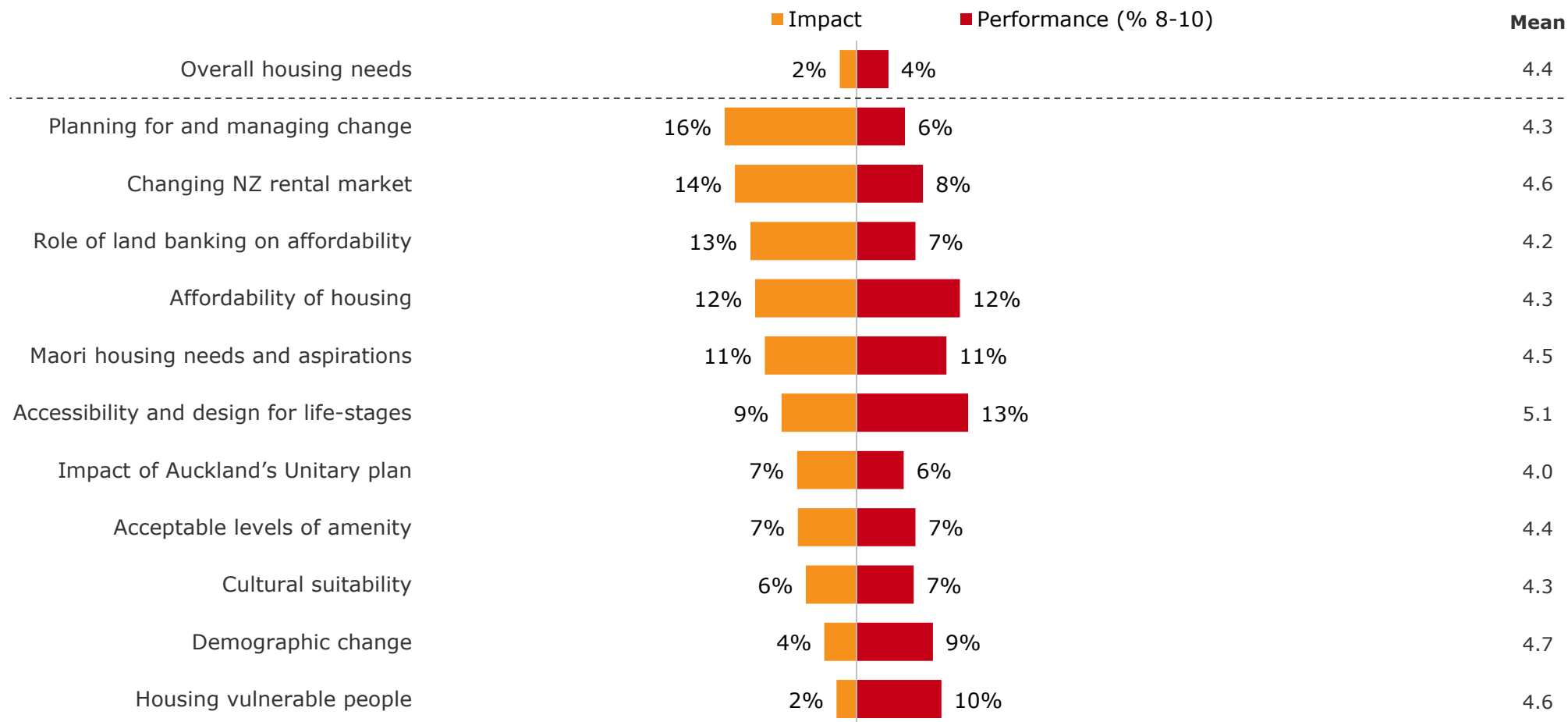


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For meeting housing needs, the highest impact sub-topics are planning for and managing change, and the changing NZ rental market

Meeting housing needs: adequacy of current body of knowledge⁽¹⁾⁽²⁾



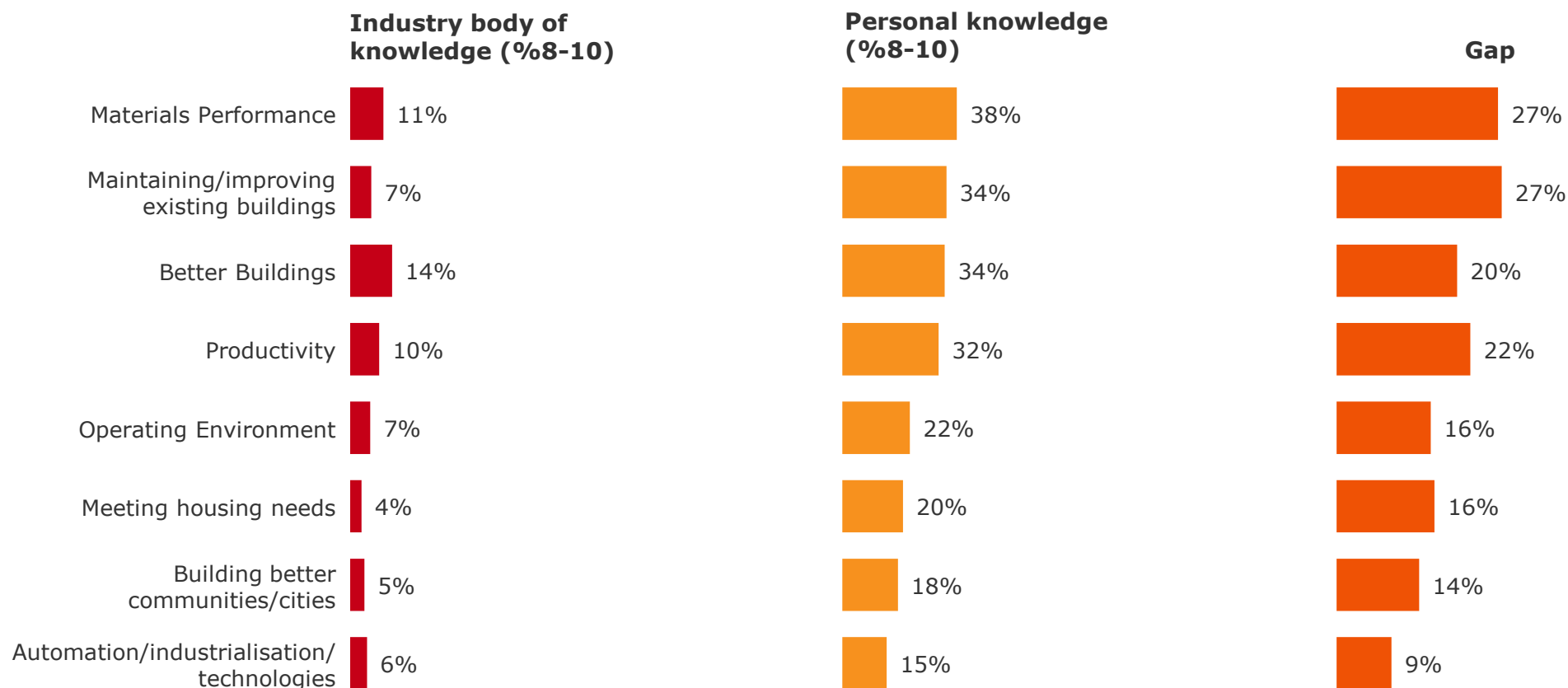
NOTES:

1. Sample size n = 1,077

2. Considering these various elements, overall how would you rate the adequacy of the current body of knowledge on meeting the housing needs of all New Zealanders?

While adequacy of the overall body of knowledge is rated low, individuals consider that their personal knowledge in relation to their job is much higher

Industry body of knowledge vs. personal knowledge⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. In relation to your job, how would you rate the extent of your personal knowledge about each of these major topics?



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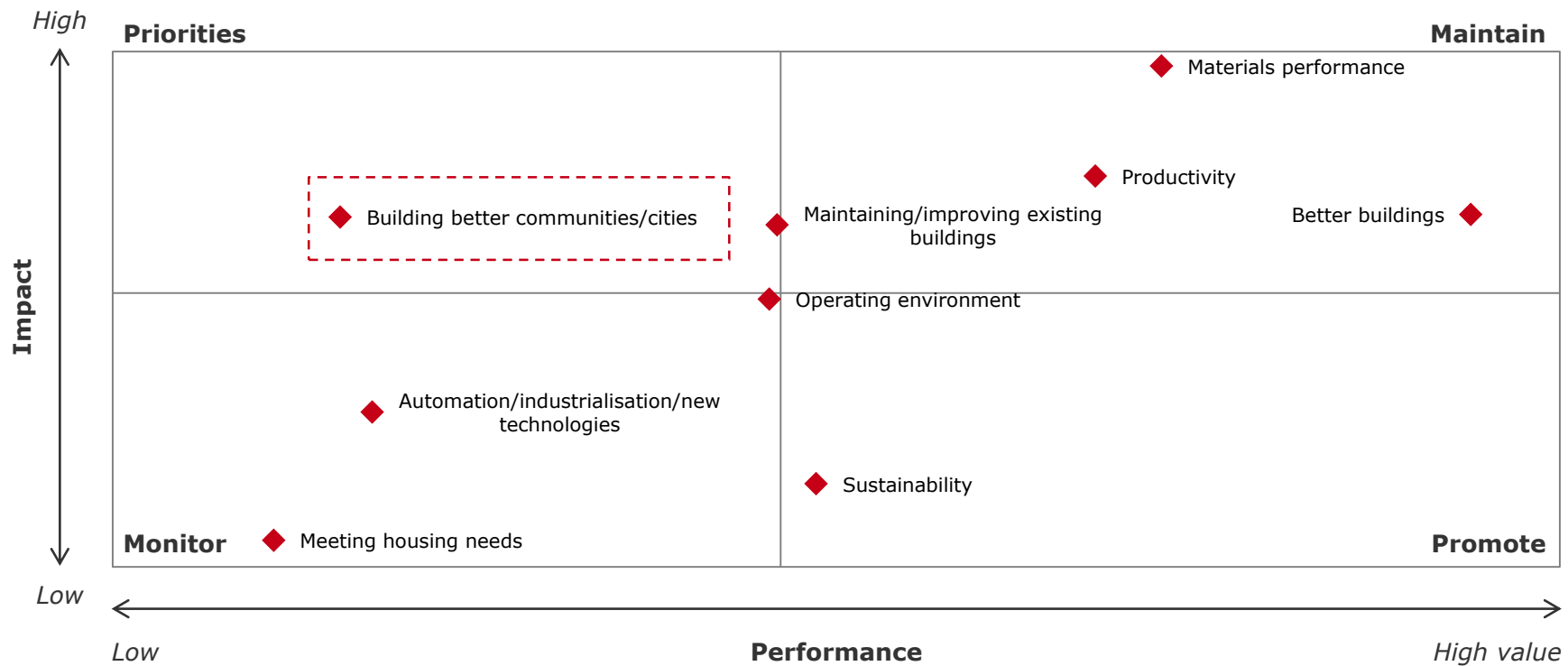
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Building better communities is the priority topic for creating new knowledge for the immediate future given its above average impact yet below average perceived adequacy

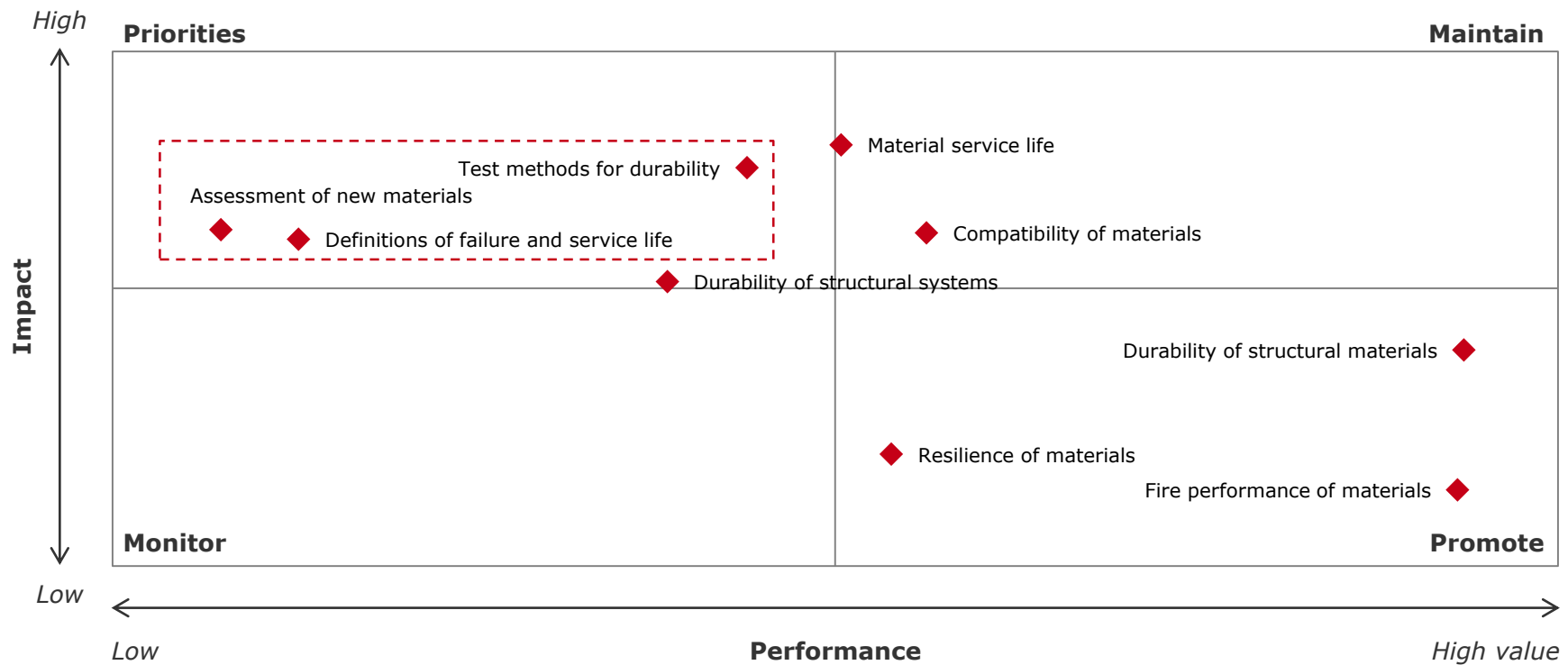
Industry priorities for creating new knowledge⁽¹⁾



NOTES:
1. Sample size n = 1,077

For materials performance – durability tests, new material assessments and definitions of failure and service life are the priority topics

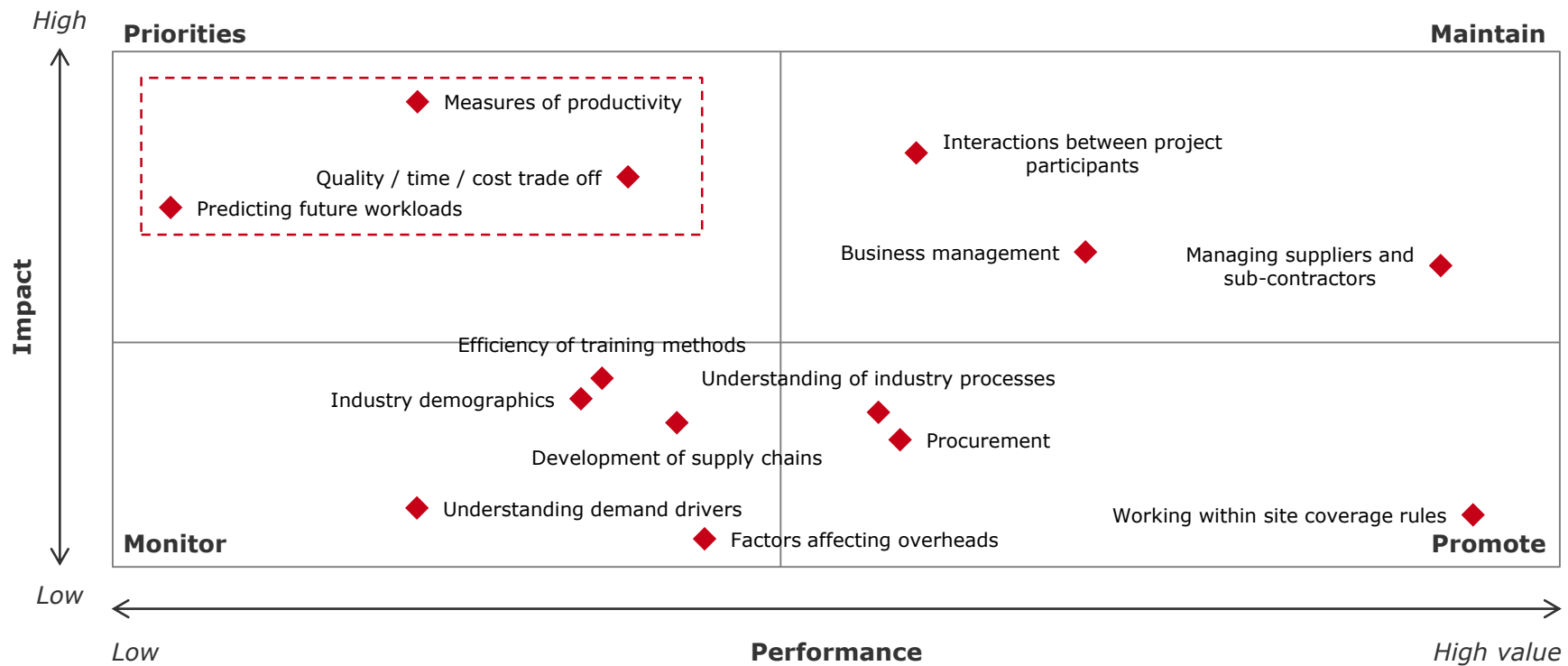
Materials performance: priorities⁽¹⁾



NOTES:
1. Sample size n = 1,077

For productivity – measures of productivity, quality / cost trade off and predicting future workloads are the key priorities for new information

Productivity: priorities⁽¹⁾



NOTES:
1. Sample size n = 1,077



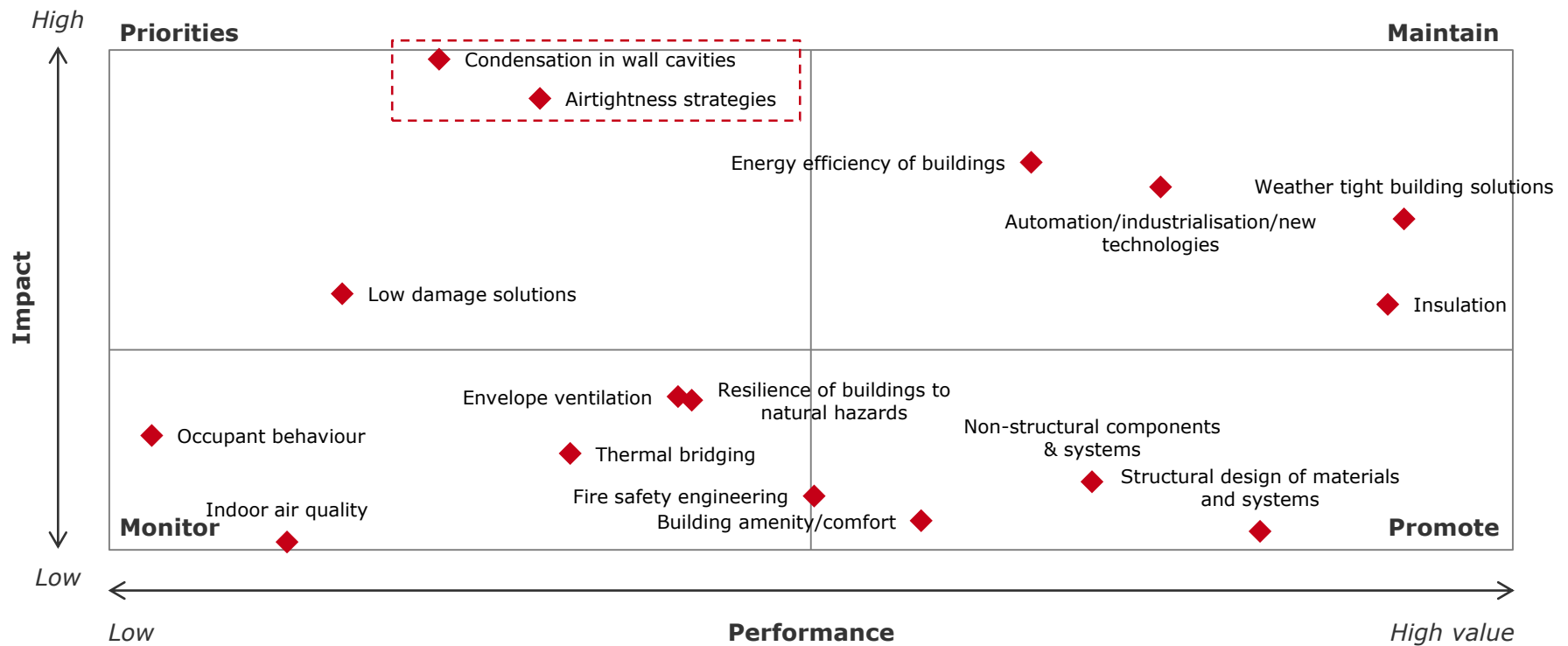
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For the better buildings category – condensation in wall cavities and airtightness strategies are the key priority topics to address

Better buildings: priorities⁽¹⁾

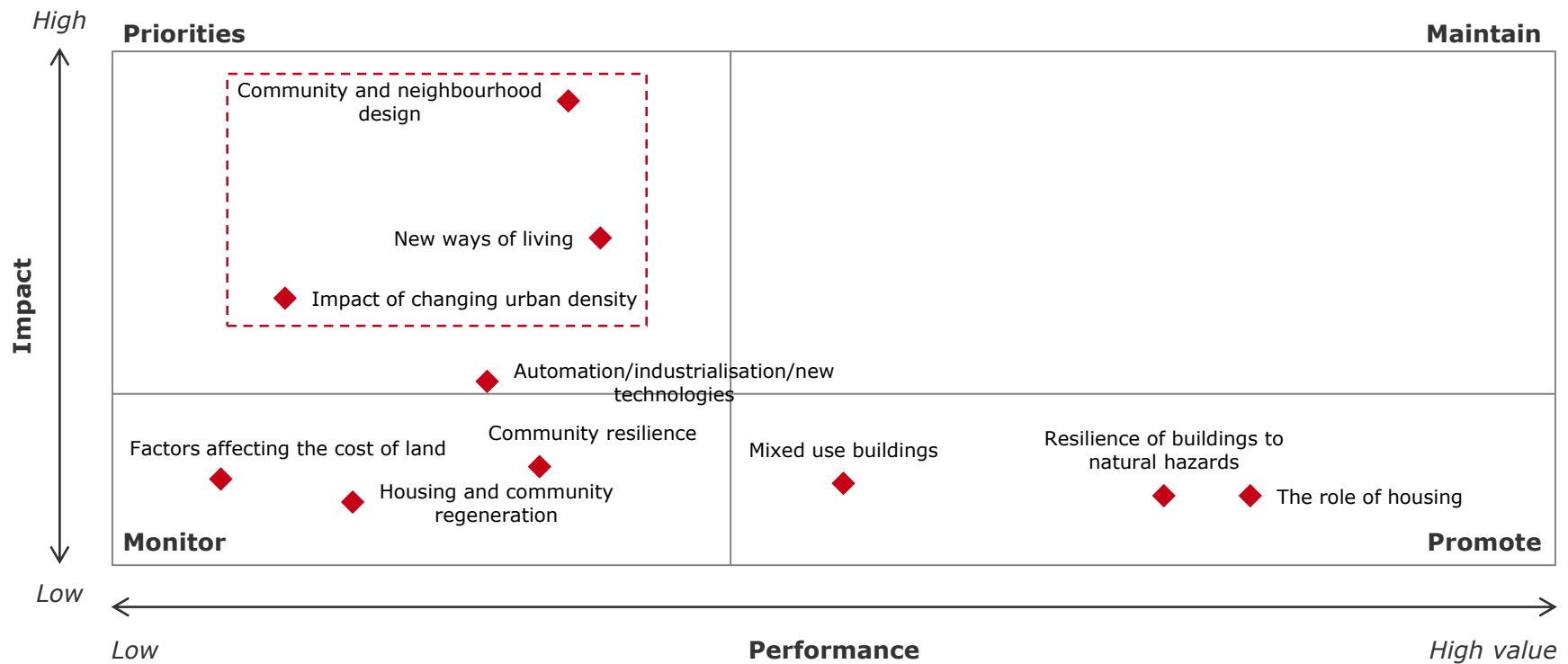


NOTES:

1. Sample size n = 1,077

For building better communities – community / neighbourhood design, new ways of living and the impact of changing urban density are the key priority topics

Building better communities: priorities⁽¹⁾

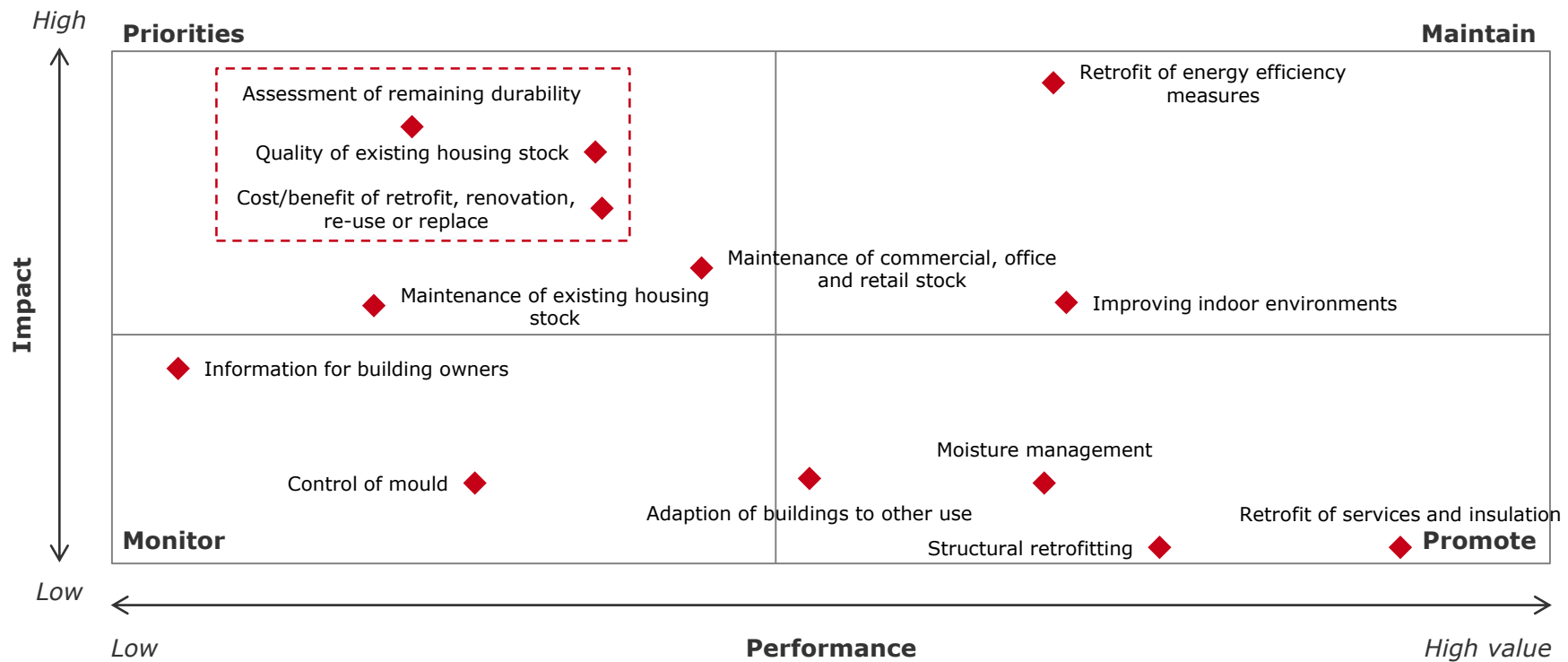


NOTES:

1. Sample size n = 1,077

For maintaining and improving existing buildings – the priority topics to address are durability assessments, existing housing stock quality and cost / benefit of retrofits and renovations

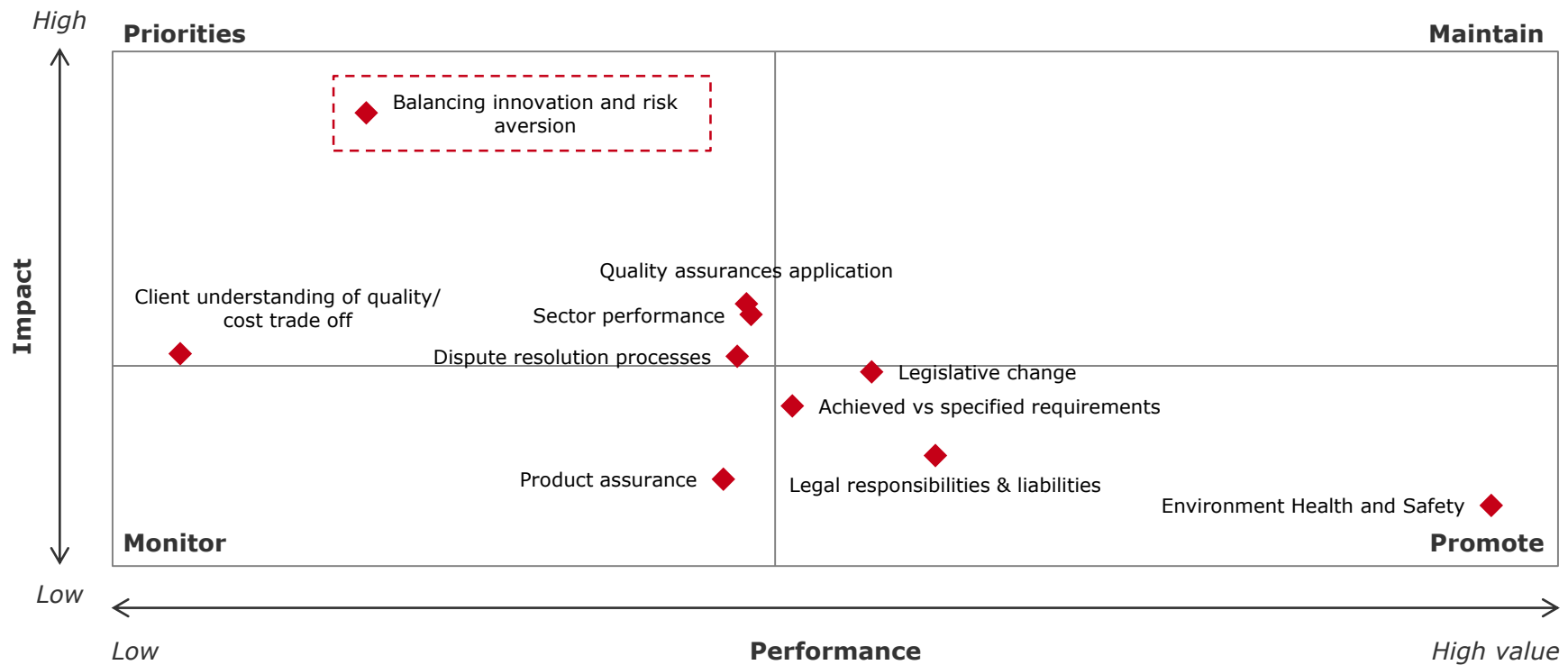
Maintaining/improving existing buildings: priorities⁽¹⁾



NOTES:
1. Sample size n = 1,077

For the operating environment improving the current body of knowledge on balancing innovation and risk should be the top priority

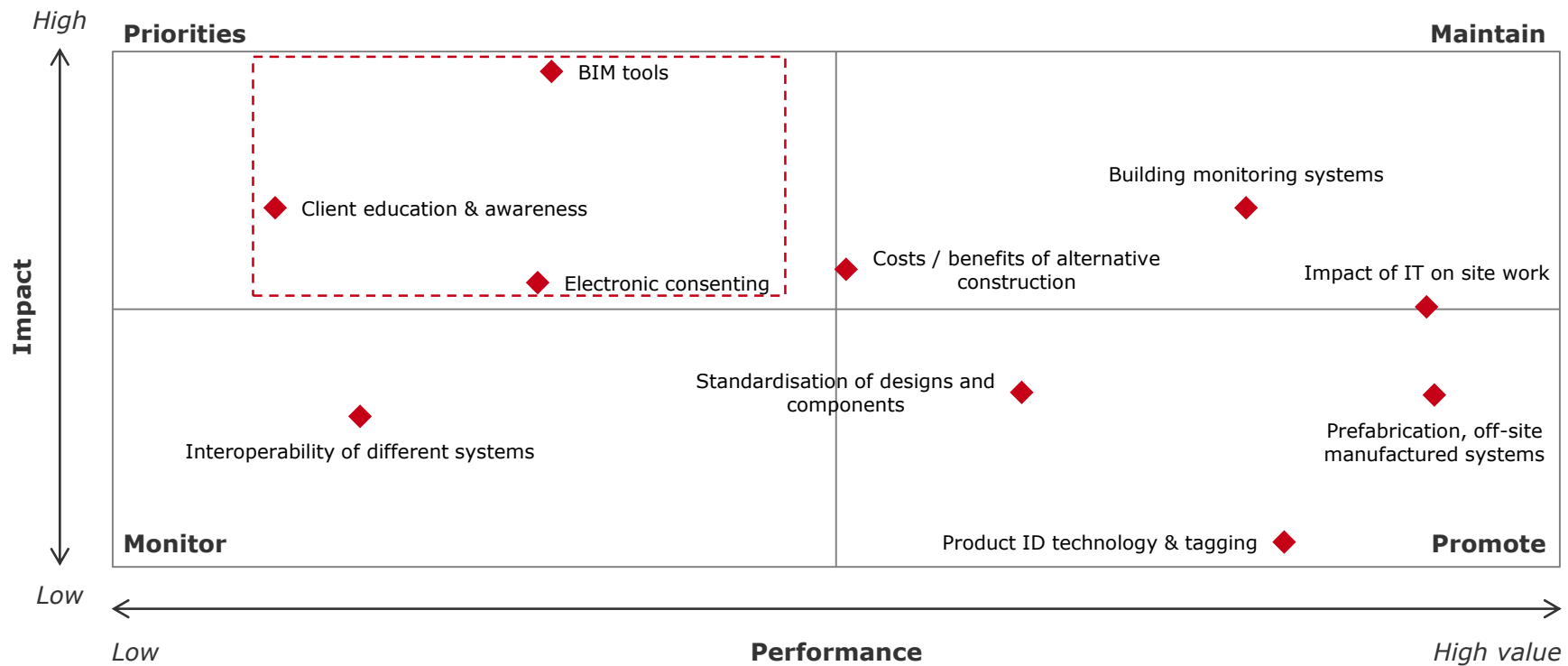
Operating environment: priorities⁽¹⁾



NOTES:
1. Sample size n = 1,077

For automation / industrialisation / new tech – BIM tools, client education and awareness, and electronic consenting are the top priorities for new information

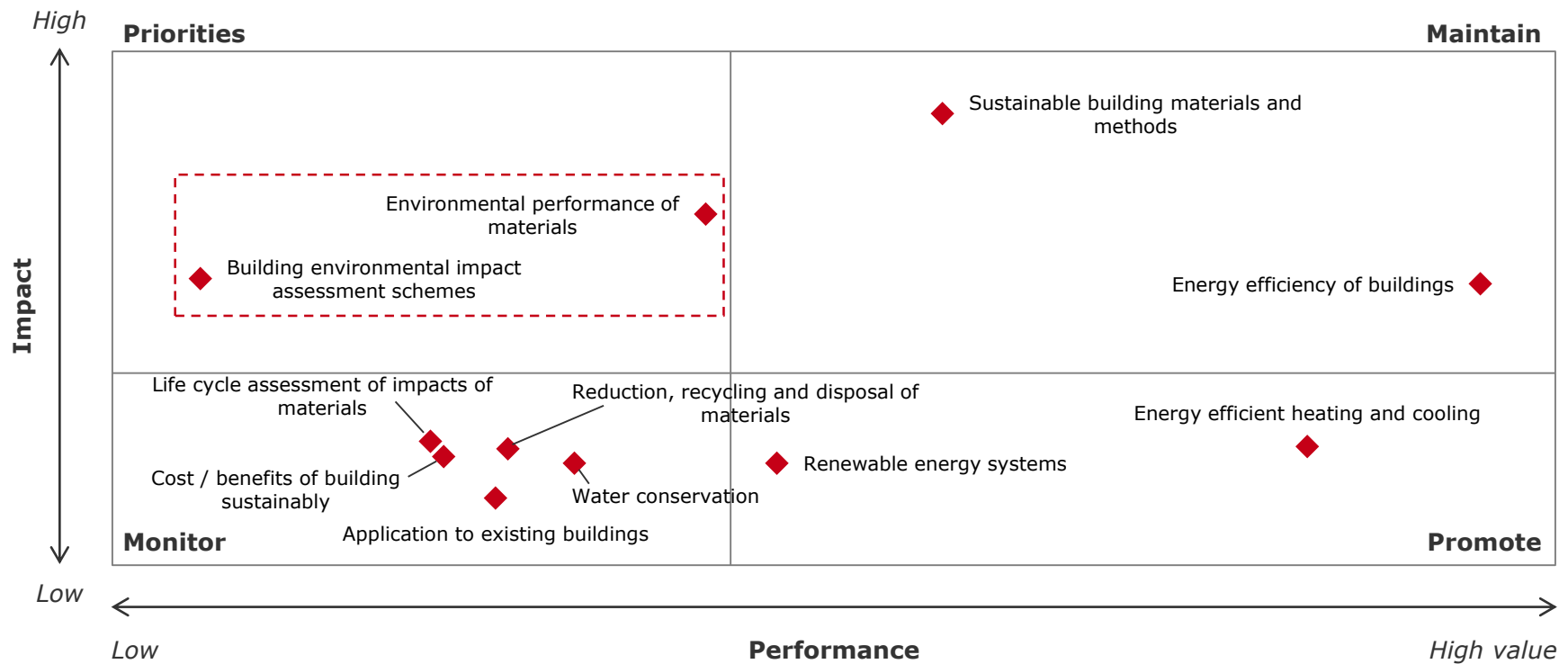
Automation/industrialisation/new technologies: priorities⁽¹⁾



NOTES:
 1. Sample size n = 1,077

For sustainability – environmental performance of materials and environmental impact assessment schemes are the top priorities

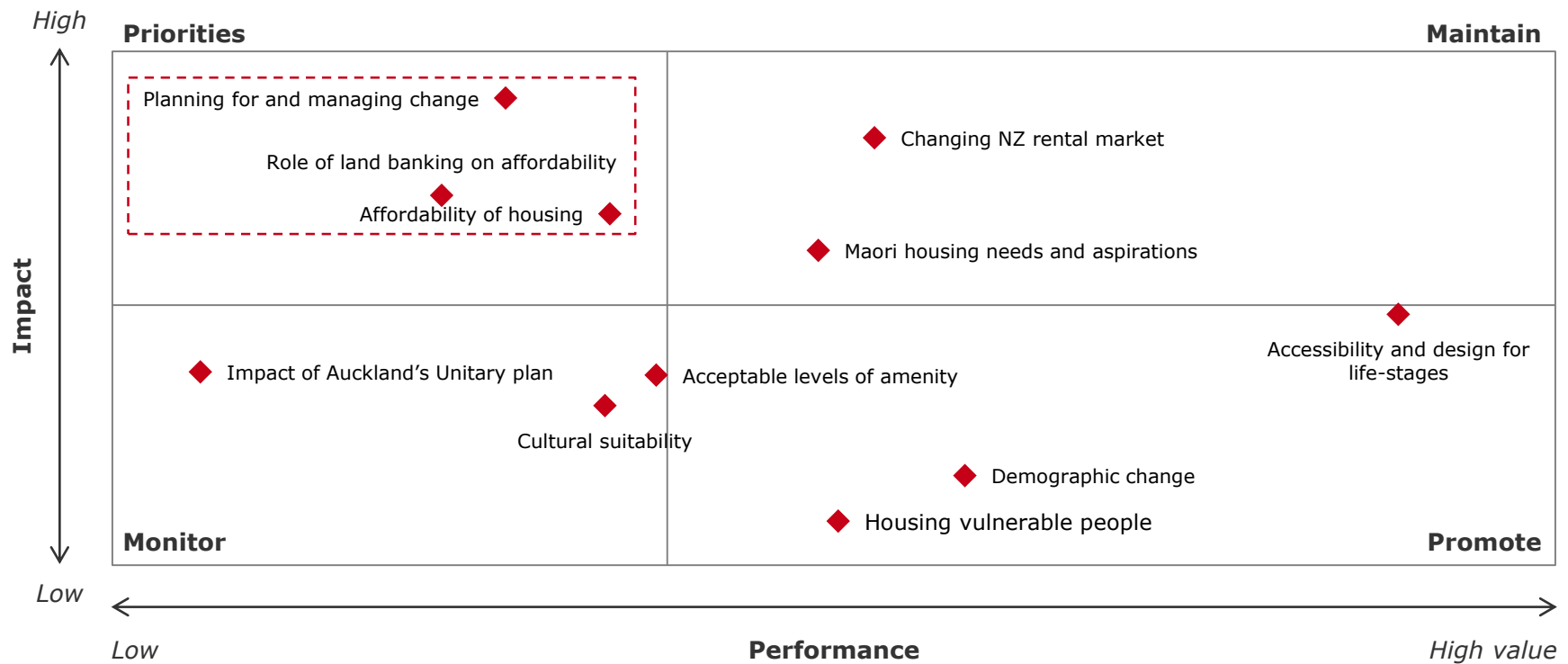
Sustainability: priorities⁽¹⁾



NOTES:
 1. Sample size n = 1,077

For meeting housing needs – planning / managing change, role of land banking and affordability are the priority topics

Meeting housing needs: priorities⁽¹⁾



NOTES:

1. Sample size n = 1,077

All of the major occupation groups have issues that they believe require immediate resolution, and overall 82% of industry members identify something that is in need of immediate attention

Occupation groups identifying issues requiring immediate resolution⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. In terms of the immediate future what is the one specific work related issue that you most need an answer to right now?

For the immediate future the top issues that the industry feels need to be answered now are regulation concerns, affordability and consents

Single issue that most needs immediate resolution (top 10 issues)⁽¹⁾⁽²⁾

		Architects/ Designers	Builders	Officials	Consultants/ Others
Regulation concerns / building compliance	13%	11%	12%	17%	15%
Affordability	10%	9%	11%	8%	7%
Issuing consents / council	9%	9%	9%	8%	9%
Working conditions	8%	6%	10% ▲	2%	5% ▼
Training / product knowledge	7%	3%	5% ▼	11%	13% ▲
Accountability / liability	6%	5%	7%	5%	4%
Design aspects	6%	9%	4% ▼	7%	9% ▲
Cost comparisons / analysis	5%	7%	6%	2%	5%
Future demand / forecasts	5%	9% ▲	4%	9%	4%
Health and Safety	5%	<1% ▼	6% ▲	1%	3%

NOTES:

1. Sample size n = 1,077

2. In terms of the immediate future what is the one specific work related issue that you most need an answer to right now?

▲ Significantly higher than total

▼ Significantly lower than total



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All of the industry occupation groups identify issues with regulation / building compliance as requiring immediate attention followed matters relating to the issuing of consents

Single issue that most needs immediate resolution (top 10 issues)⁽¹⁾⁽²⁾

Occupation group	Regulation concerns/ building compliance	Affordability	Issuing consents/ council	Working conditions	Training/ product knowledge	Accountability/ liability	Design aspects	Cost comparisons analysis	Future demand forecasts	Health and safety
Architects/ Designers	✓	✓	✓				✓		✓	
Builders	✓	✓	✓	✓						
Officials	✓	✓	✓		✓				✓	
Consultants? others	✓		✓		✓		✓			

NOTES:

1. Sample size n = 1,077
2. In terms of the immediate future what is the ONE specific work related issue that you most need an answer to right now?

- ✓ 10% or more identify issue
- ✓ 8%-9% identify issue



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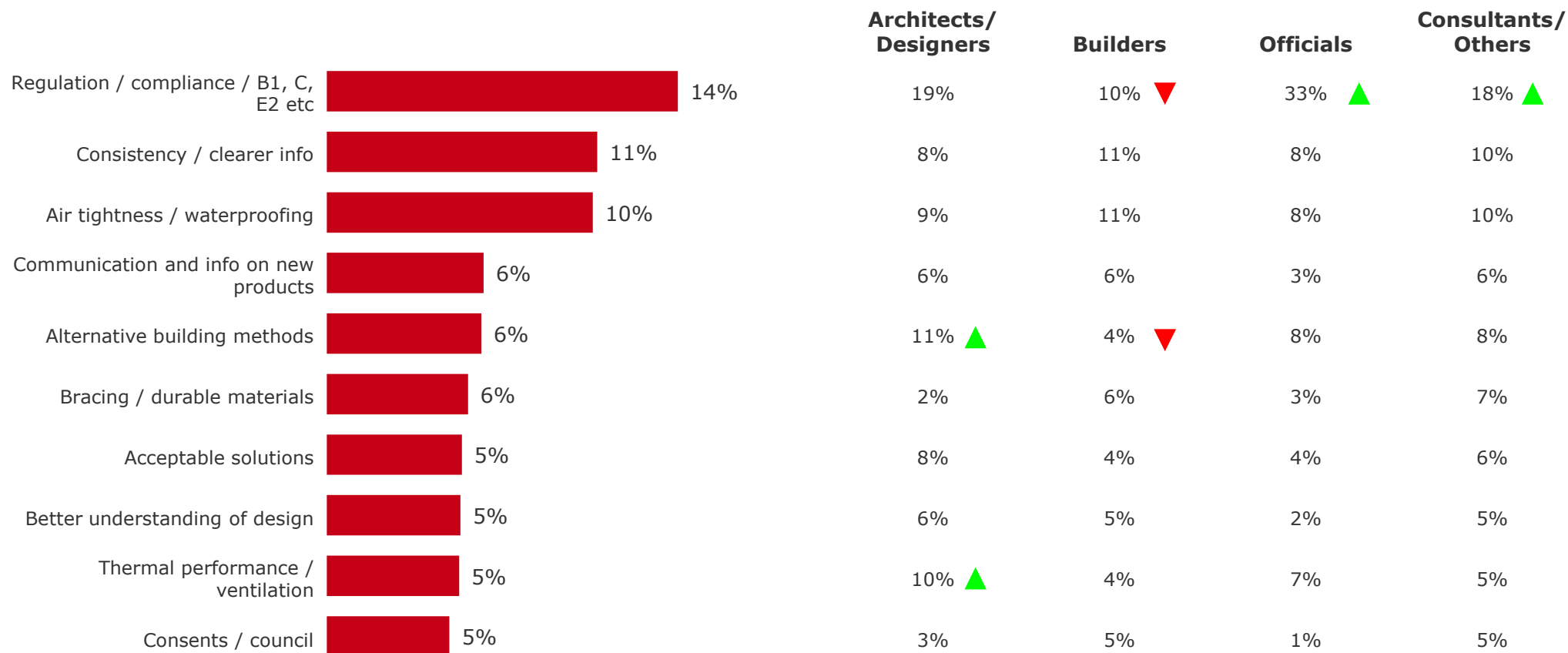


MBIE



The top issues to be the subject of new / revised standards are regulation / compliance, consistency of information and air tightness / waterproofing

Single in need of revised/new standards/building code (top 10 issues)⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077

2. In your opinion, what single topic area most needs to be the subject of new or revised New Zealand Standards or New Zealand Building Code Clauses/Acceptable Solutions/Verification Methods?

▲ Significantly higher than total

▼ Significantly lower than total



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Training / designer knowledge and town planning are seen as particular areas that have been excluded from the survey but need to be addressed

Other topics that require addressing (top 10 topics)⁽¹⁾⁽²⁾

		Architects/ Designers	Builders	Officials	Consultants/ Others
Training / designer knowledge	11%	10%	10% ▼	12%	15% ▲
Design / town planning	7%	15% ▲	6% ▼	8%	9%
Alternative building methods	6%	10%	6%	10%	6%
Building codes / regulations	5%	6%	4% ▼	6%	8% ▲
Affordability	5%	4%	6%	6%	5%
Cost comparisons / benefits	5%	4%	4% ▼	3%	8% ▲
Durability / quality buildings	5%	4%	4%	5%	7% ▲
Centralized database	4%	6%	3%	4%	4%
Consistency / clearer information / Simplify	3%	2%	3%	2%	2%
Safety / maintenance	2%	1%	2%	2%	2%

NOTES:

1. Sample size n = 1,077

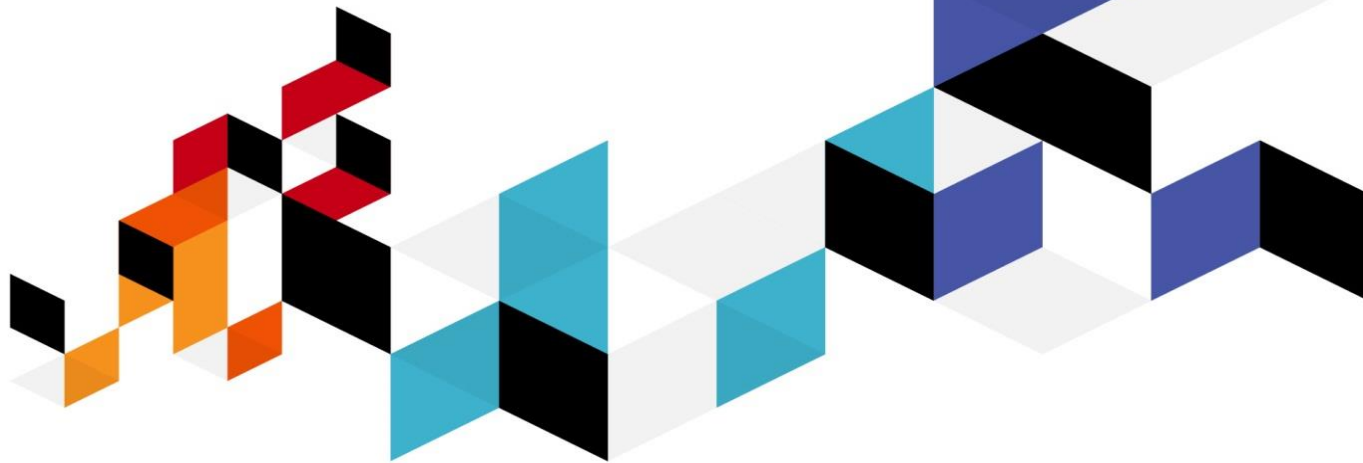
2. When you think about all the major topic areas that we have reviewed so far, are there any particular areas within any of these that you feel the industry should be focussing on to create new knowledge that we have not mentioned?

▲ Significantly higher than total

▼ Significantly lower than total

4

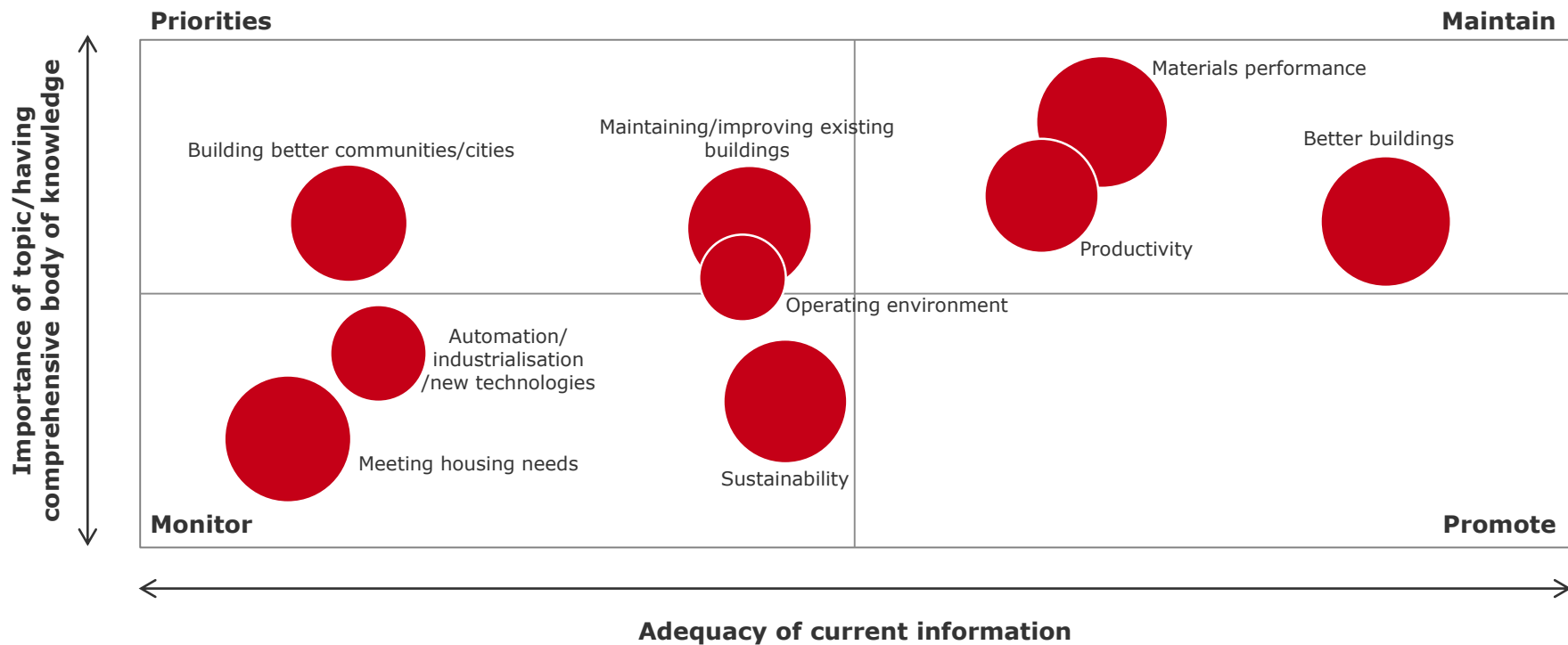
Longer term needs



For the longer term information needs, efforts should be made to improve the body of knowledge around building better communities / cities and maintaining / improving existing buildings

Future priority focus⁽¹⁾

The size of the bubble indicates the longer term need for new knowledge



NOTES:

1. Size of bubble is the proportion rating a high need for the industry to create new knowledge for the longer term

With the exception of the operating environment and automation, most topics are seen as high priority for developing information over the next 5 – 10 years

Priorities for the next 5-10 years⁽¹⁾⁽²⁾

	Satisfaction with current body of knowledge % 8-10	Long term priority (% High)				
		Total	Architects/ Designers	Builders	Officials	Consultants/ Others
Better buildings	14%	66%	73%	66%	68%	63%
Materials performance	11%	67%	52% ▼	69%	64%	69%
Productivity	10%	50%	37% ▼	53% ▲	45%	49%
Sustainability	8%	59%	61%	63% ▲	62%	49% ▼
Maintaining/improving existing buildings	7%	60%	64%	58% ▼	67%	64%
Operating environment	7%	29%	23%	30%	31%	29%
Automation/industrialisation/new technologies	6%	36%	33%	35%	35%	39%
Building better communities/cities	5%	53%	66% ▲	51%	57%	54%
Meeting housing needs	4%	62%	67%	60% ▼	68%	66%

NOTES:

1. Sample size n = 1,077
2. Thinking now about the information priorities for the long term, 5-10 years, please rate each topic according to how much need there is for the industry to create new knowledge? Rate each topic as; 'High', 'Medium' or 'Low', or select 'Don't Know' if you are unable to provide a response

▲ Significantly higher than total
▼ Significantly lower than total



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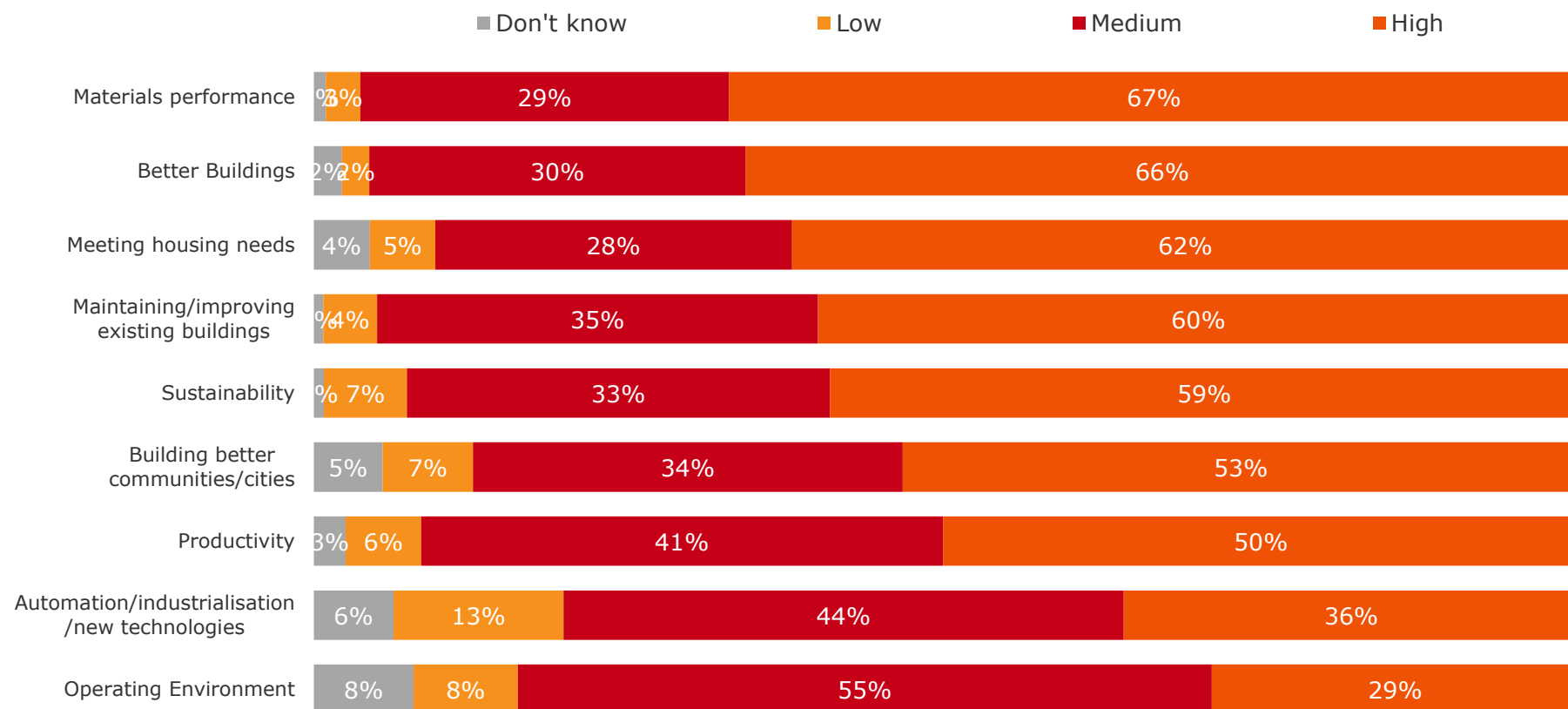


MBIE



Within the long term focus, materials performance and better buildings are seen as the top priorities, while automation and the operating environment are not considered as important

Priorities for the next 5-10 years⁽¹⁾⁽²⁾



NOTES:

1. Sample size n = 1,077
2. Thinking now about the information priorities for the long term, 5-10 years, please rate each topic according to how much need there is for the industry to create new knowledge? Rate each topic as; 'High', 'Medium' or 'Low', or select 'Don't Know' if you are unable to provide a response



Industry needs survey

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MBIE



A centralised database of industry information is considered very important for longer term information needs across all industry groups

Specific information anticipated for the longer term (Top 10 topics)⁽¹⁾⁽²⁾

		Architects/ Designers	Builders	Officials	Consultants/ Others
Centralised database	22%	26%	21%	22%	23%
Energy efficiency	12%	17%	13%	12%	7% ▼
Building codes / regulations	9%	7%	9%	8%	10%
Accountability / liability	7%	3%	9% ▲	3%	3% ▼
Training / qualifications	6%	5%	5%	8%	8%
Infrastructure / town planning	6%	14% ▲	4% ▼	7%	7%
Durability / quality	6%	5%	6%	4%	5%
Consents / council	5%	6%	4%	4%	8% ▲
Cost comparisons / long term costs	5%	7%	3% ▼	2%	7% ▲
Construction methods - prefab / bracing	5%	11% ▲	4%	5%	3%

NOTES:

1. Sample size n = 1,077

2. What is the one specific work related issue that you believe will most need to be resolved by the industry in the next 5 to 10 years?

▲ Significantly higher than total

▼ Significantly lower than total

Training / designer knowledge is again an important topic, followed closely by cost comparisons / benefits, with safety of particular importance to builders

Single issue most in need of resolving next 5-10 years (Top 10 issues)⁽¹⁾⁽²⁾

		Architects/ Designers	Builders	Officials	Consultants/ Others
Training / designer knowledge	14%	5% ▼	15%	17%	16%
Cost comparisons / benefits	11%	12%	12%	5%	10%
Safety / maintenance	9%	1% ▼	11% ▲	2%	7%
Consents / council	8%	10%	8%	10%	6%
Building codes / regulations	7%	8%	6% ▼	8%	11% ▲
Durability / quality buildings	7%	5%	6%	6%	10% ▲
Affordability	7%	12% ▲	6%	8%	7%
Workload / pay / productivity	6%	5%	8% ▲	2%	4%
Accountability / liability	6%	6%	5%	5%	9% ▲
Weather tight issues	5%	5%	5%	4%	5%

NOTES:

1. Sample size n = 1,077

2. What is the one specific work related issue that you believe will most need to be resolved by the industry in the next 5 to 10 year?

▲ Significantly higher than total

▼ Significantly lower than total



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BRANZ

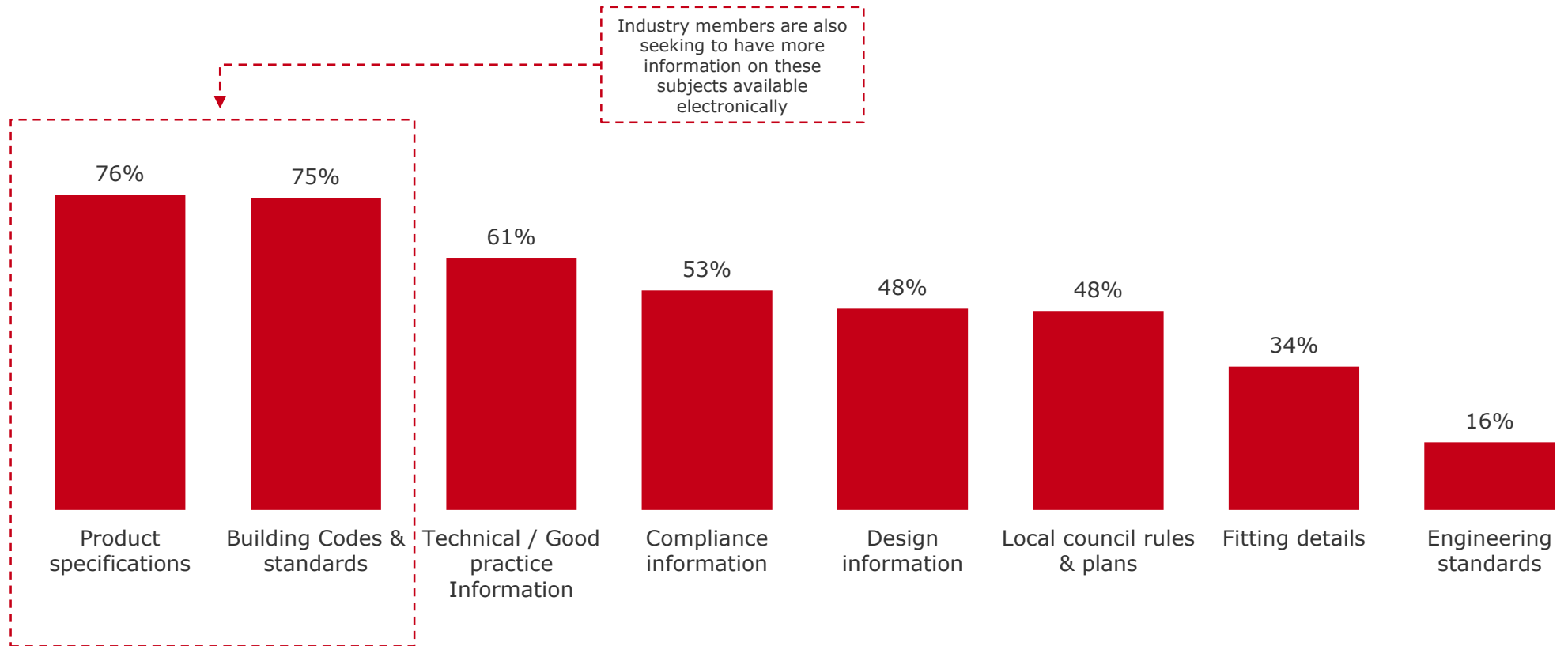
5

Information sources



The information that is most frequently sourced relates to product specifications and building codes and standards

Information being sourced most frequently⁽¹⁾⁽²⁾



NOTES:

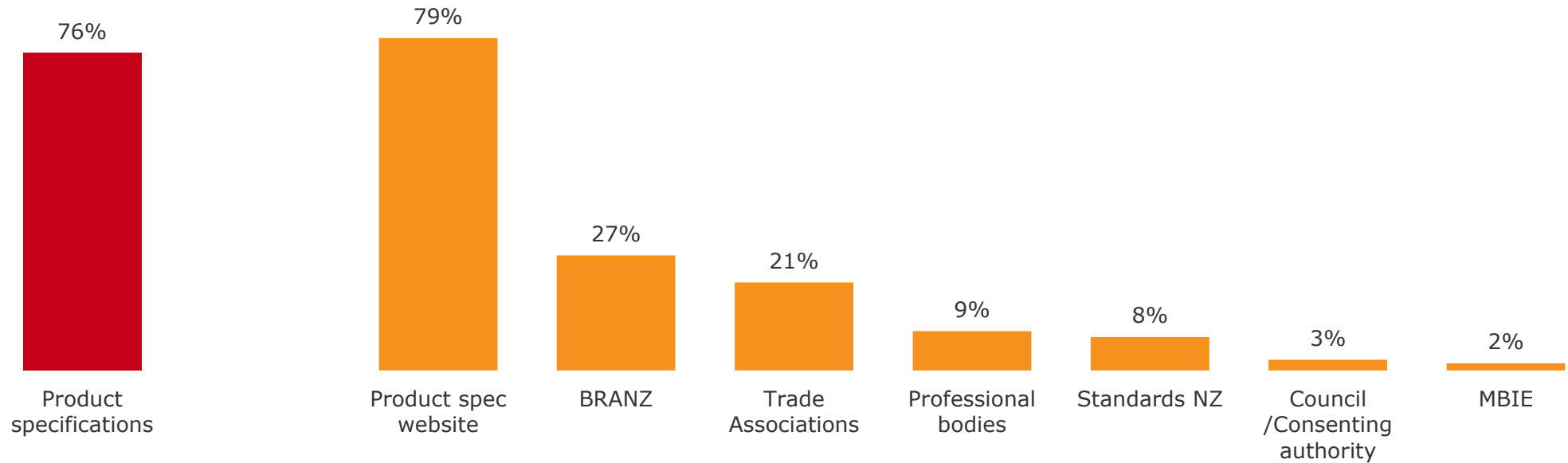
1. Sample size n = 1,077

2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently?

Product specification websites are the primary source of information on product specifications, with BRANZ also used by around a quarter of the industry

Information sources being sourced most frequently: product specifications⁽¹⁾⁽²⁾⁽³⁾

Sources used

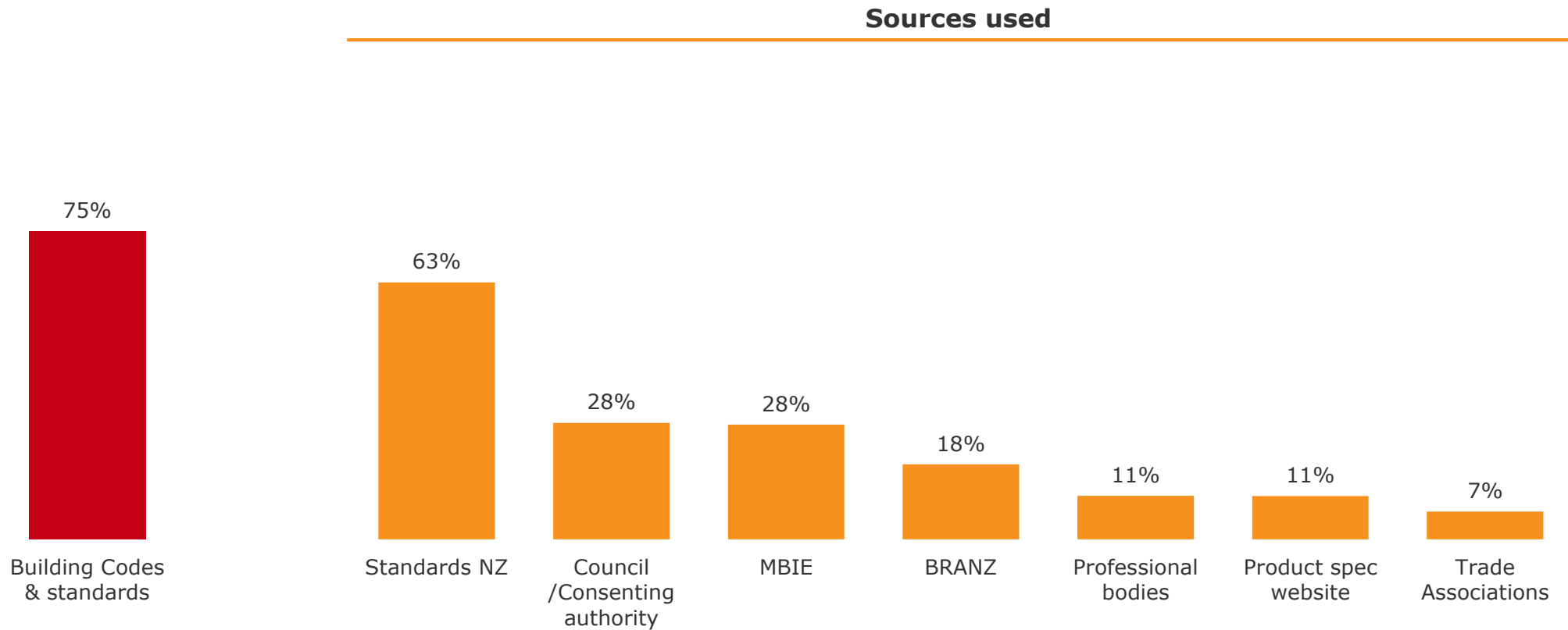


NOTES:

1. Sample size n = 1,077
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

Standards NZ is the key source of information on building codes and standards

Information sources being sourced most frequently: building codes & standards⁽¹⁾⁽²⁾⁽³⁾



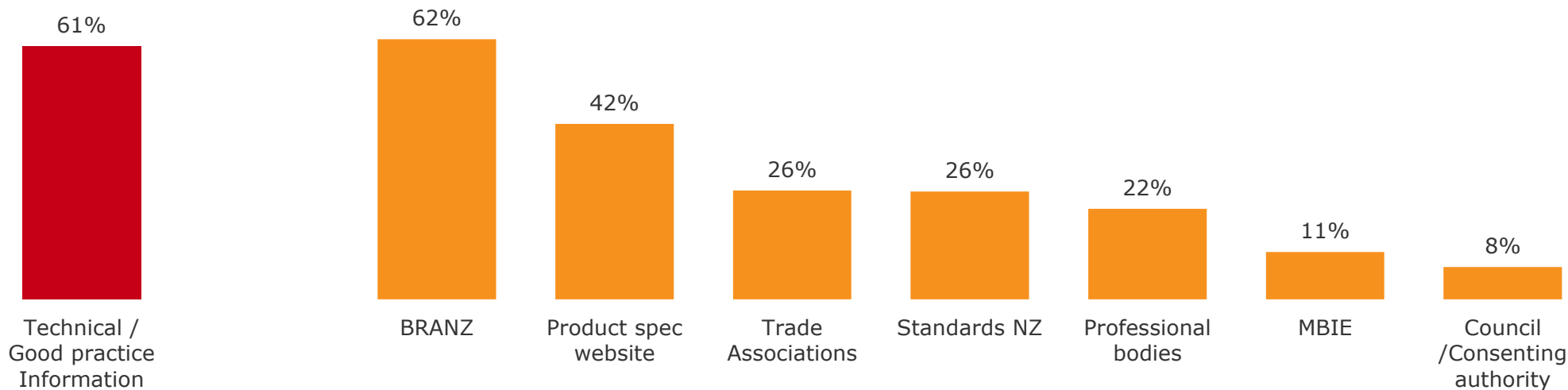
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2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

For technical / good practice information nearly two thirds look to BRANZ, with product specifications websites also frequently used

Information sources being sourced most frequently: technical/good practice information⁽¹⁾⁽²⁾⁽³⁾

Sources used



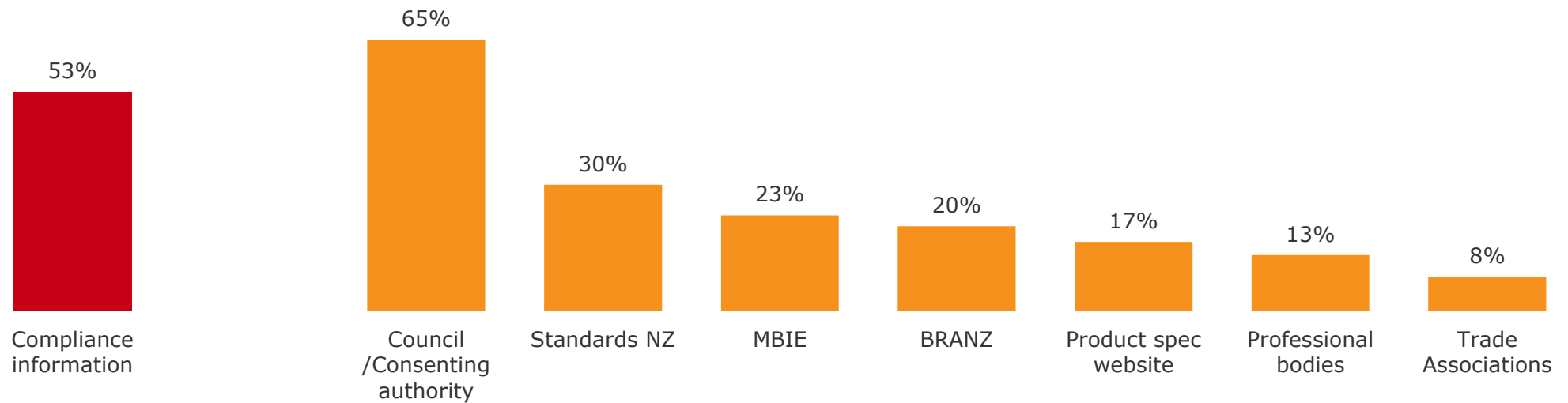
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3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

The local council / consenting authority is the primary source of information around compliance, with about a third also sourcing info from Standards NZ

Information sources being sourced most frequently: compliance information⁽¹⁾⁽²⁾⁽³⁾

Sources used



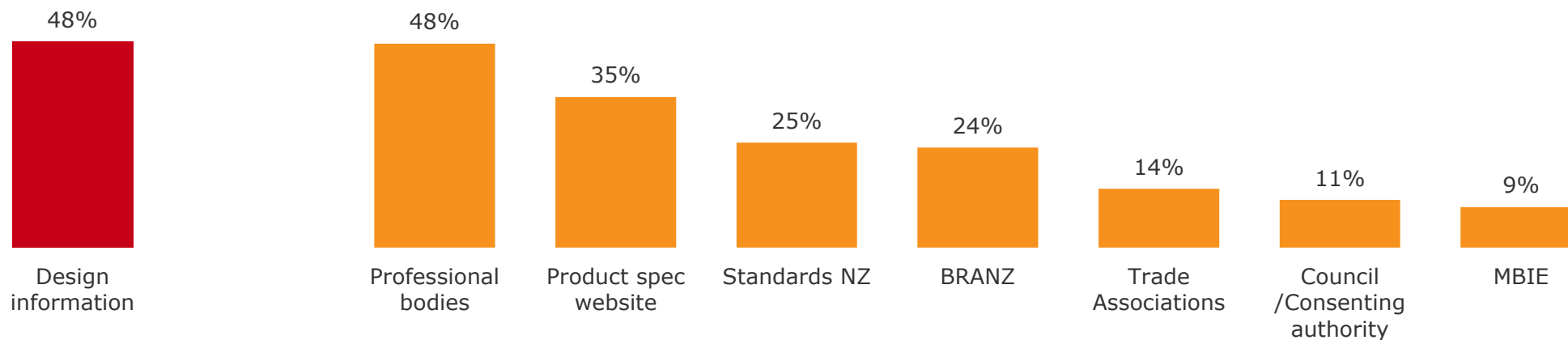
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1. Sample size n = 1,077
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

When it comes to design information a number of sources are frequently used, the most common being professional bodies and product specifications websites

Information sources being sourced most frequently: design information⁽¹⁾⁽²⁾⁽³⁾

Sources used



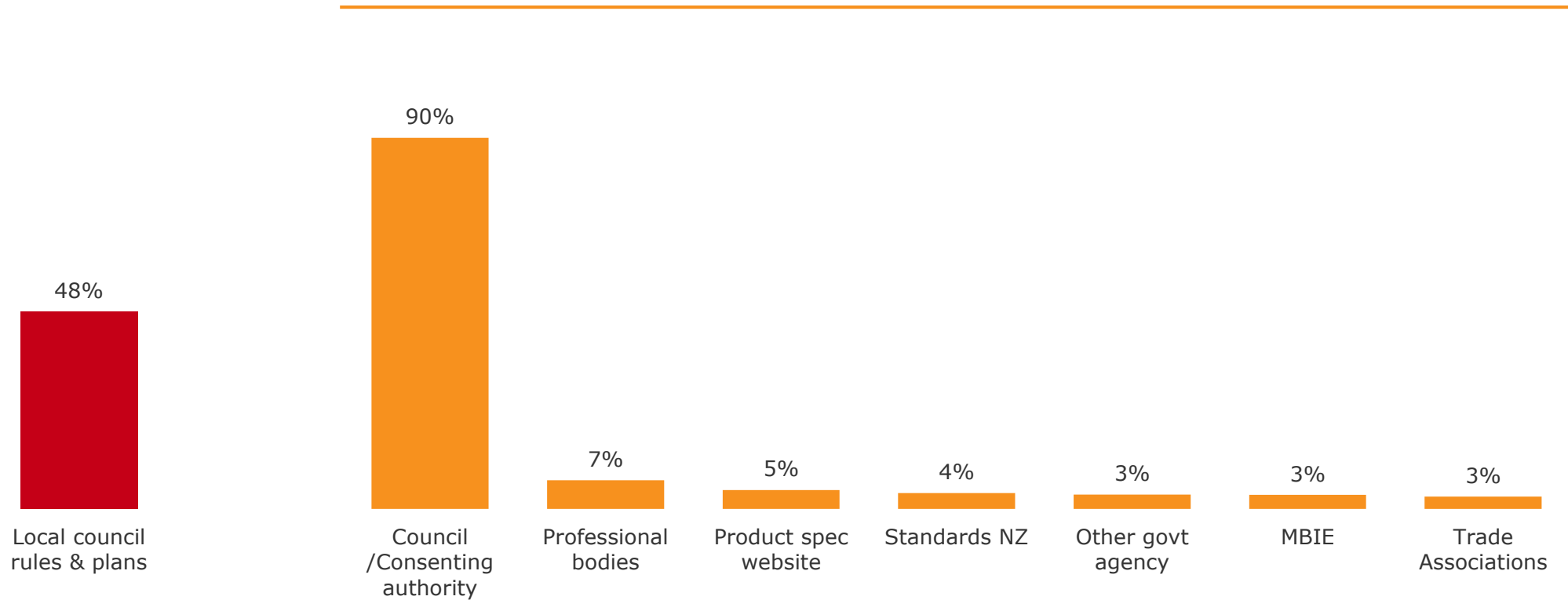
NOTES:

1. Sample size n = 1,077
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

For information around local council rules and plans the vast majority look to the council / consenting authority

Information sources being sourced most frequently: local council rules & plans⁽¹⁾⁽²⁾⁽³⁾

Sources used



NOTES:

1. Sample size n = 1,077
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply



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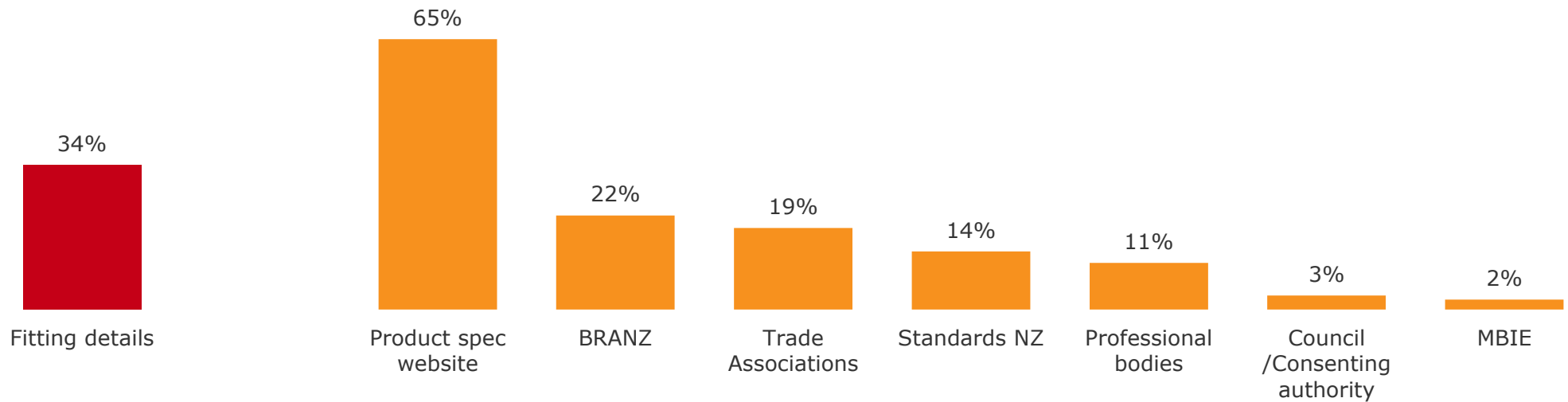


BRANZ

Product specification websites are the key information source for fitting details

Information sources being sourced most frequently: fitting details⁽¹⁾⁽²⁾⁽³⁾

Sources used



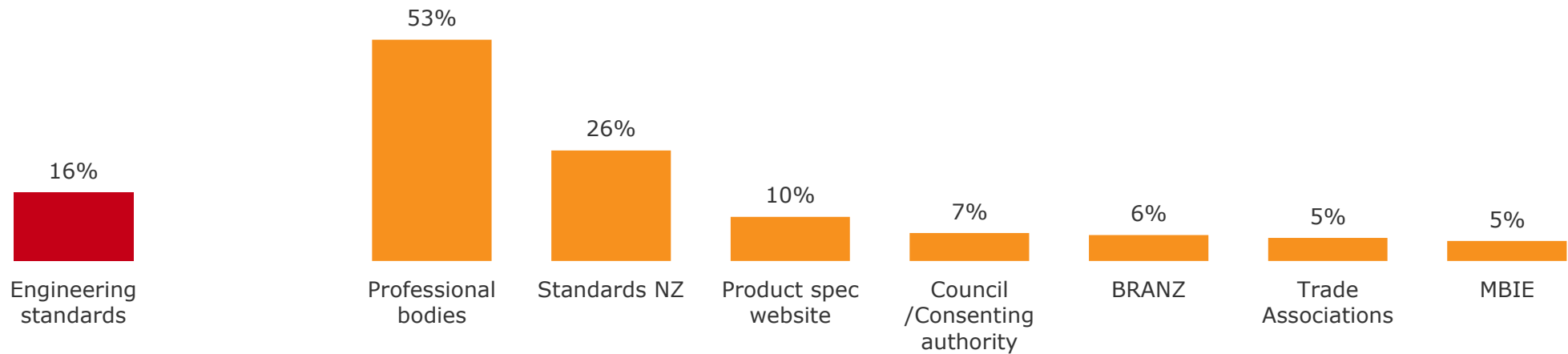
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3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

The few industry members frequently sourcing information on engineering standards tend to use professional bodies or Standards NZ

Information sources being sourced most frequently: engineering standards⁽¹⁾⁽²⁾⁽³⁾

Sources used

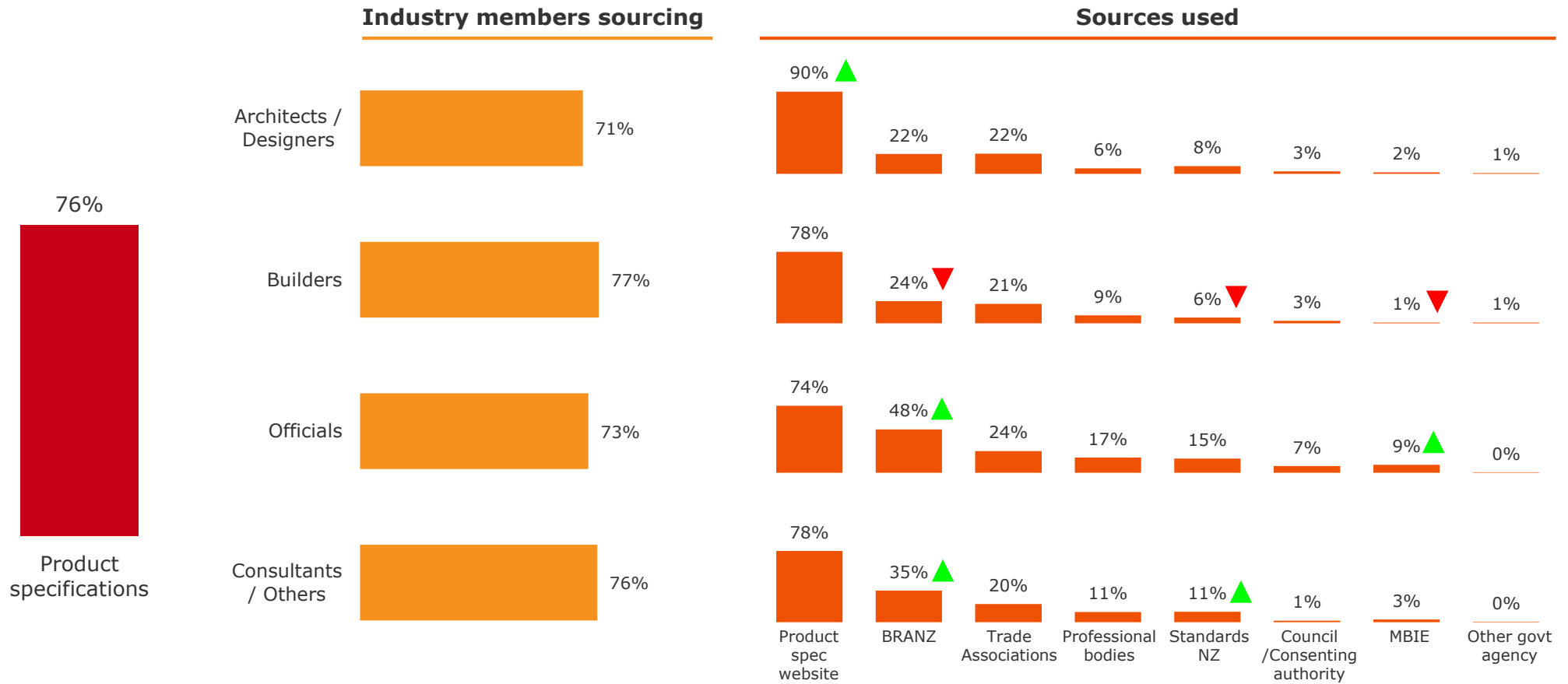


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3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

All industry groups have a high frequency of sourcing information on product specifications, with product specification websites the key source, particularly for architects / designers

Information sources being sourced most frequently: product specifications⁽¹⁾⁽²⁾⁽³⁾



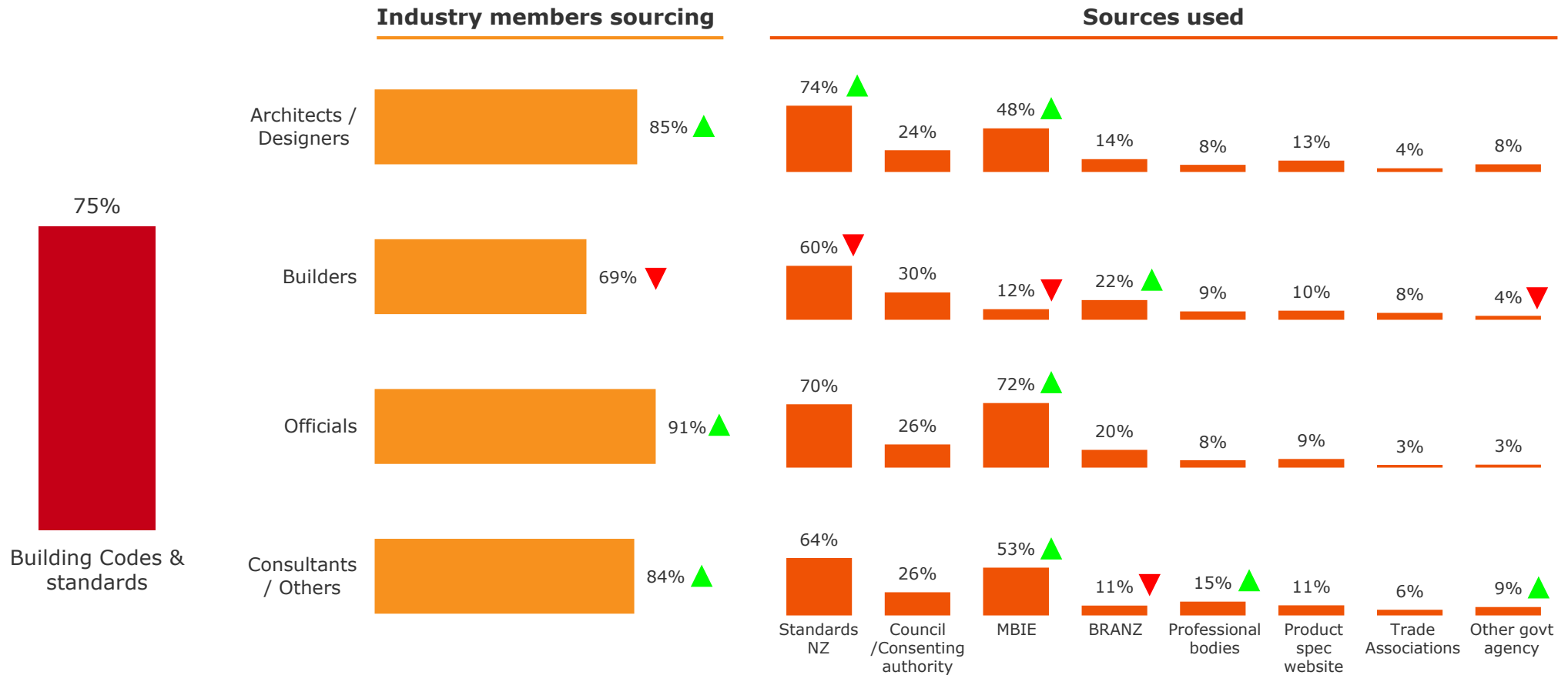
NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total

Builders are less likely than other industry groups to be sourcing information on building codes and standards - whereas nine in ten officials do and use MBIE as their primary source

Information sources being sourced most frequently: building codes & standards⁽¹⁾⁽²⁾⁽³⁾



NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
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3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total



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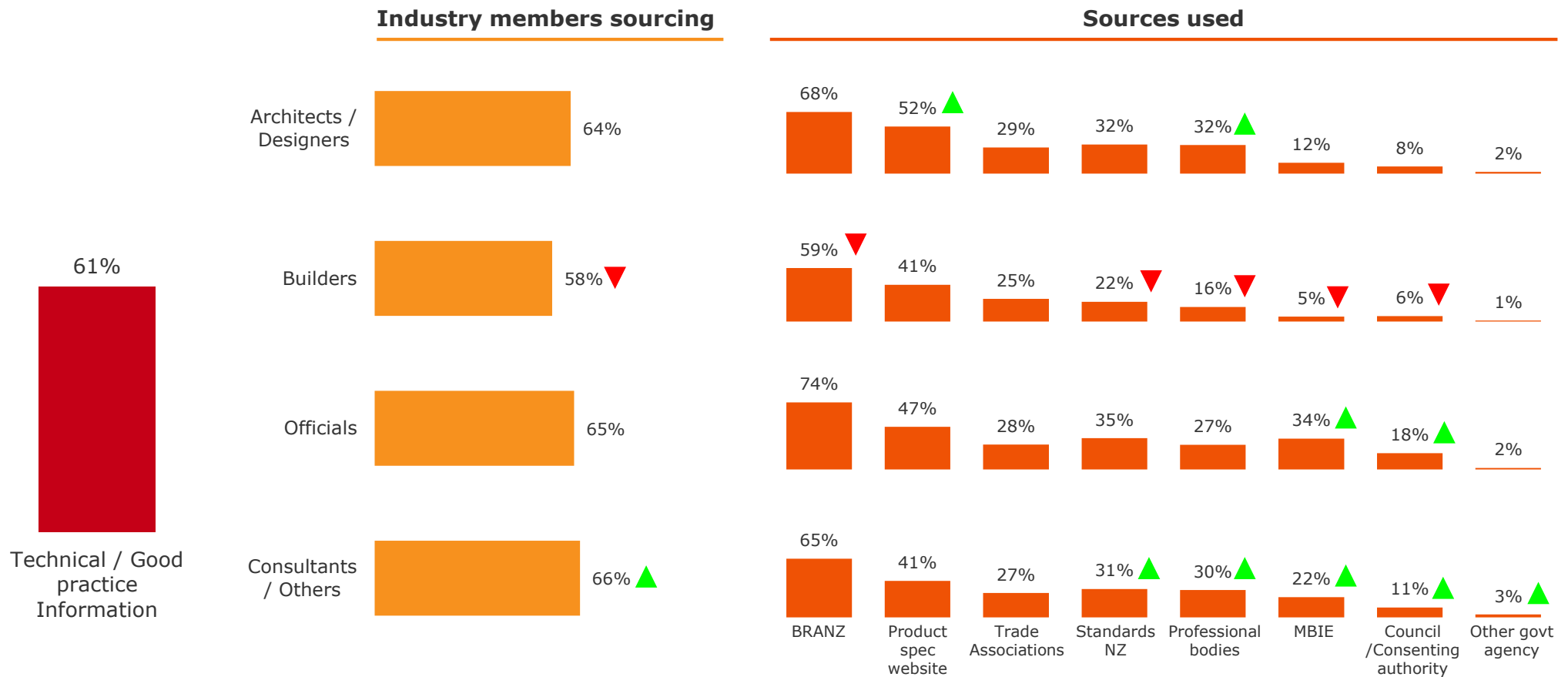


MBIE



Builders are less likely than other industry groups to be sourcing information on technical / good practices

Information sources being sourced most frequently: technical/good practice information⁽¹⁾⁽²⁾⁽³⁾



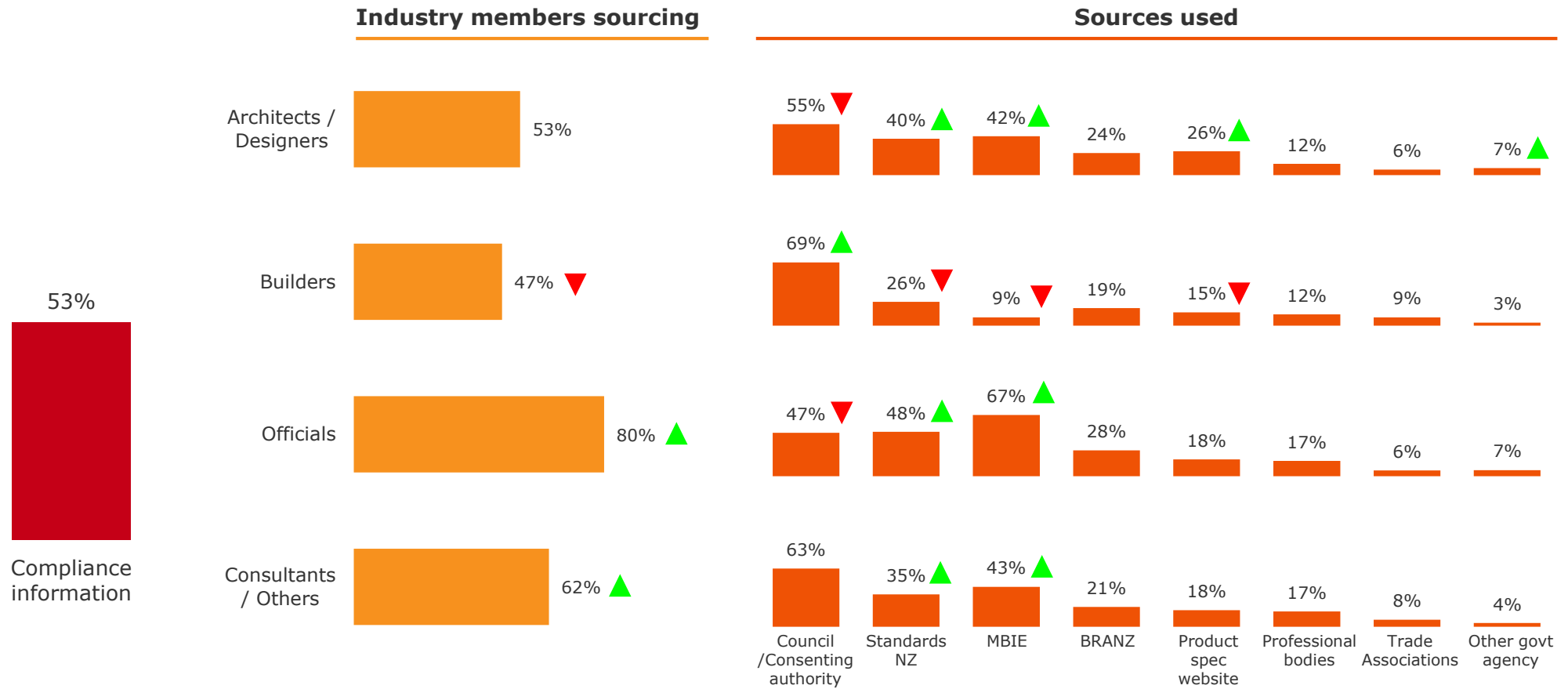
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1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
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3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total

Officials most frequently source compliance information, with MBIE being their most commonly used information source

Information sources being sourced most frequently: compliance information⁽¹⁾⁽²⁾⁽³⁾



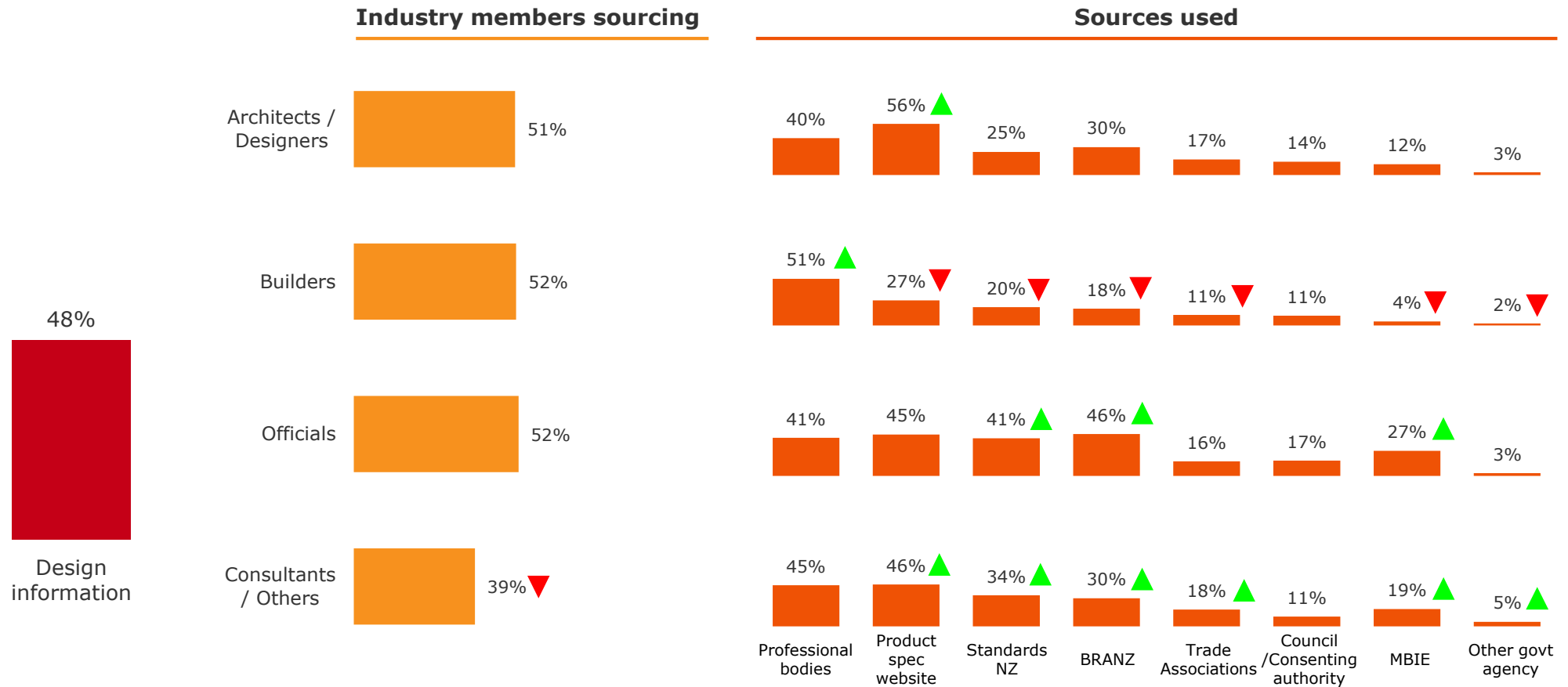
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- Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
- What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
- For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total

Consultants / others are the least likely to source design information, although they use a wide repertoire of information sources when they do

Information sources being sourced most frequently: design information⁽¹⁾⁽²⁾⁽³⁾



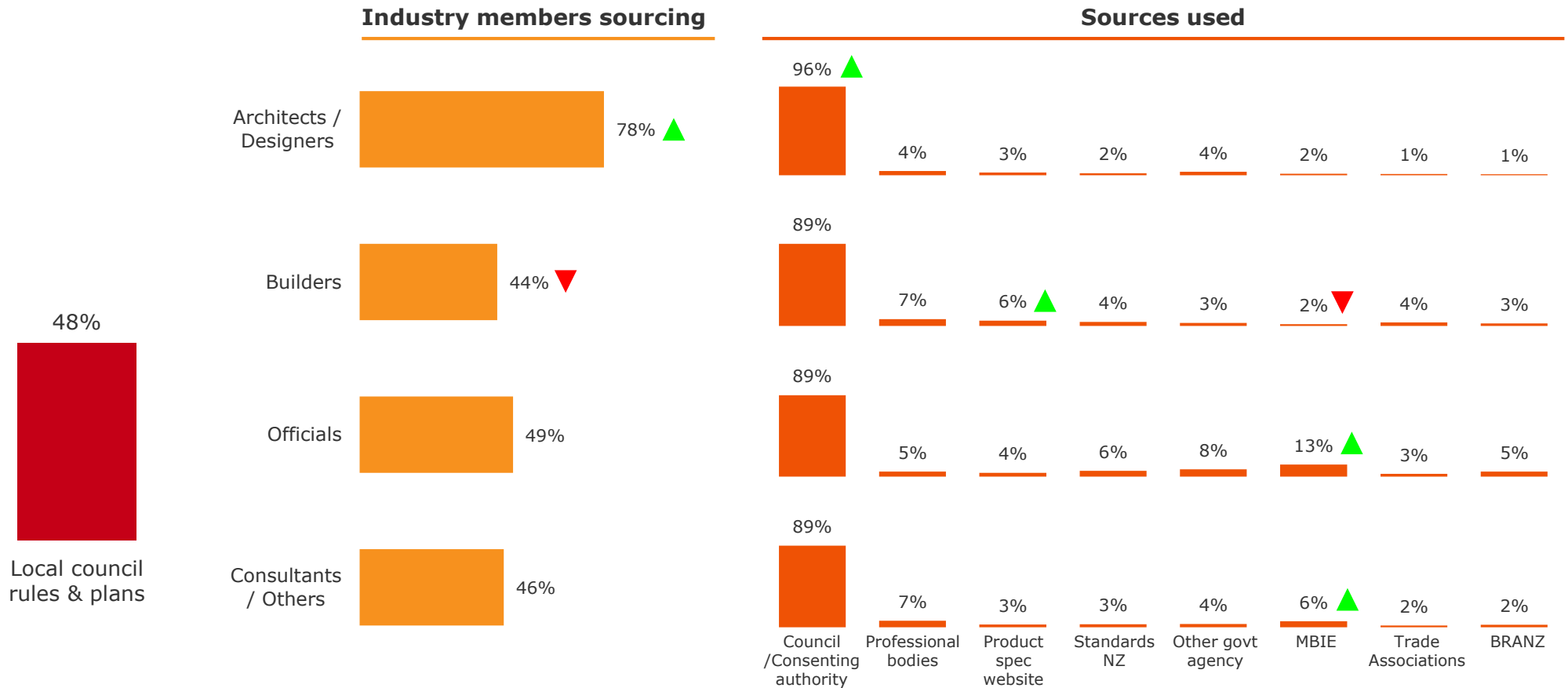
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1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total

Architects / designers are the most frequent users of information on local council rules and plans and overwhelmingly prefer to source from the council / consenting authority

Information sources being sourced most frequently: local council rules & plans⁽¹⁾⁽²⁾⁽³⁾



NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
 ▼ Significantly lower than total



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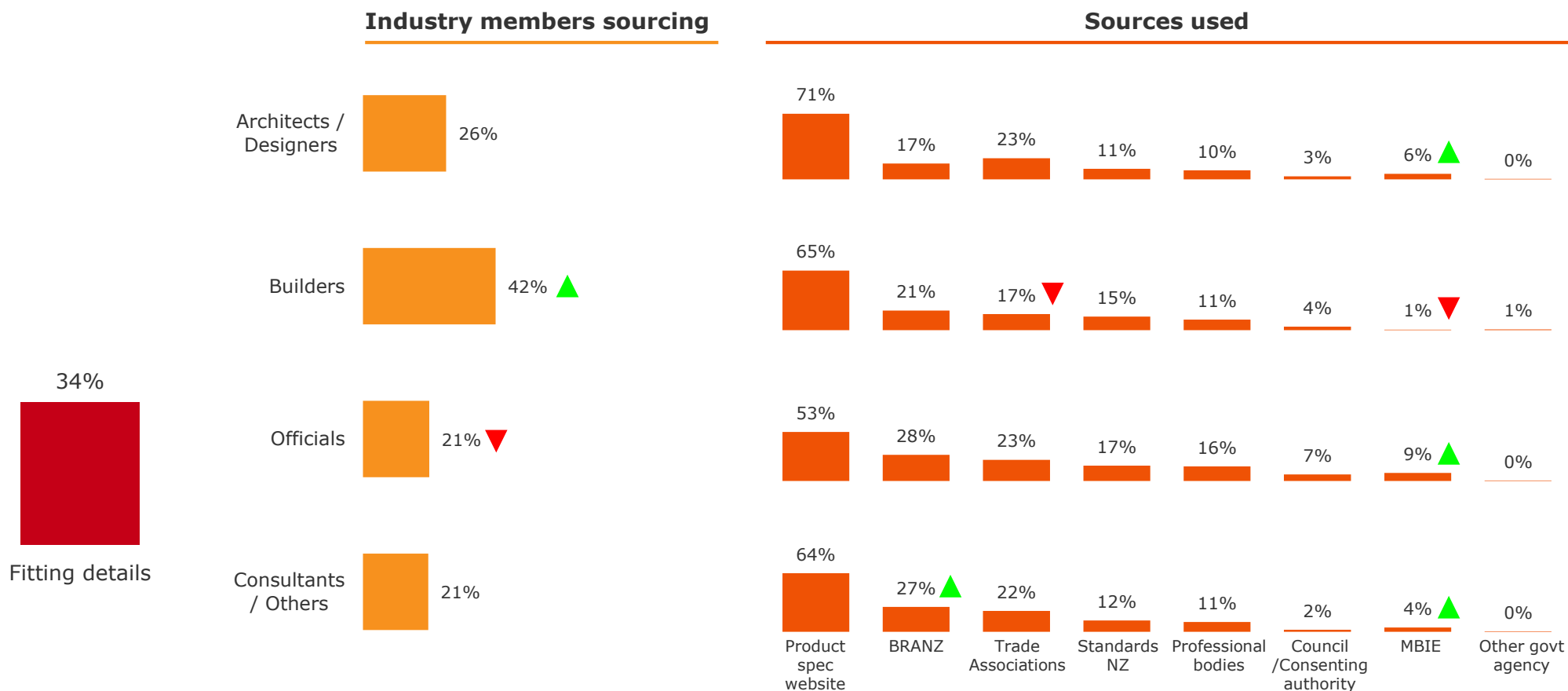


MBIE



Builders are more likely to be sourcing information on fitting details, with product specification websites again the most common source

Information sources being sourced most frequently: fitting details⁽¹⁾⁽²⁾⁽³⁾



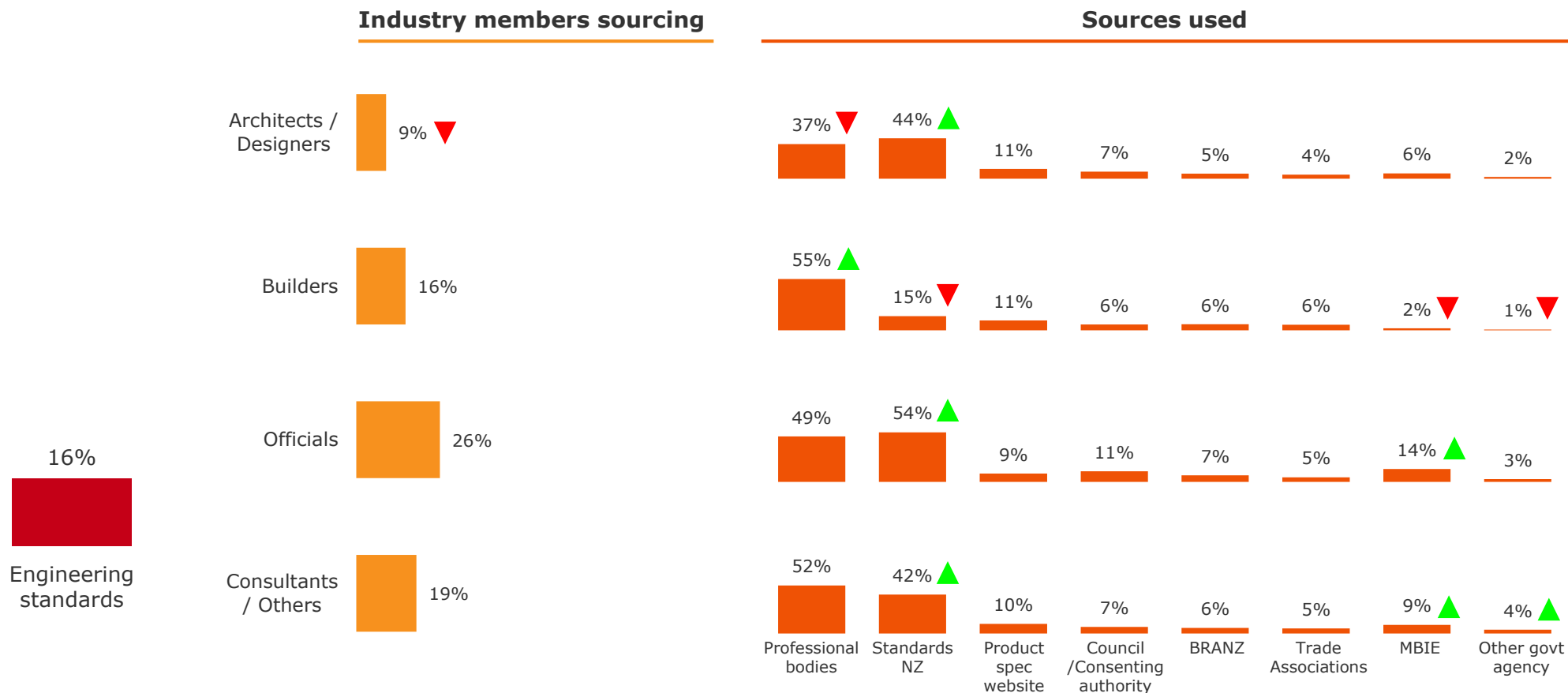
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2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
▼ Significantly lower than total

Builders, officials and consultants / others source a moderate amount of information on engineering standards and tend to use professional bodies or Standards NZ

Information sources being sourced most frequently: engineering standards⁽¹⁾⁽²⁾⁽³⁾



NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. What are the general types of information that you most frequently need to source as part of your day-to-day activities? Select the three types of information that you use most frequently
3. For each of the following types of information, what organisations do you most frequently use? Select all that apply

▲ Significantly higher than total
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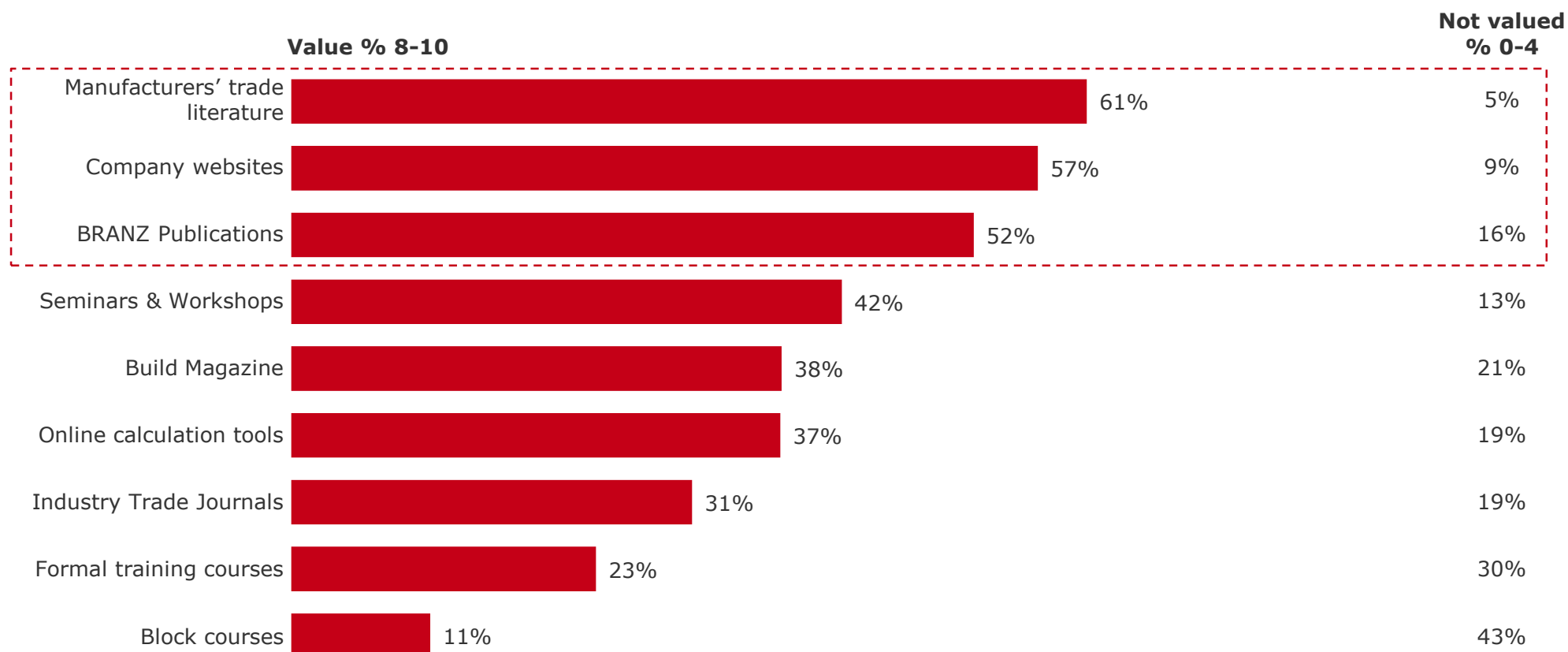
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BRANZ

The most valued sources of information are manufacturers' trade literature, company websites and BRANZ publications

Value of sources of information⁽¹⁾⁽²⁾

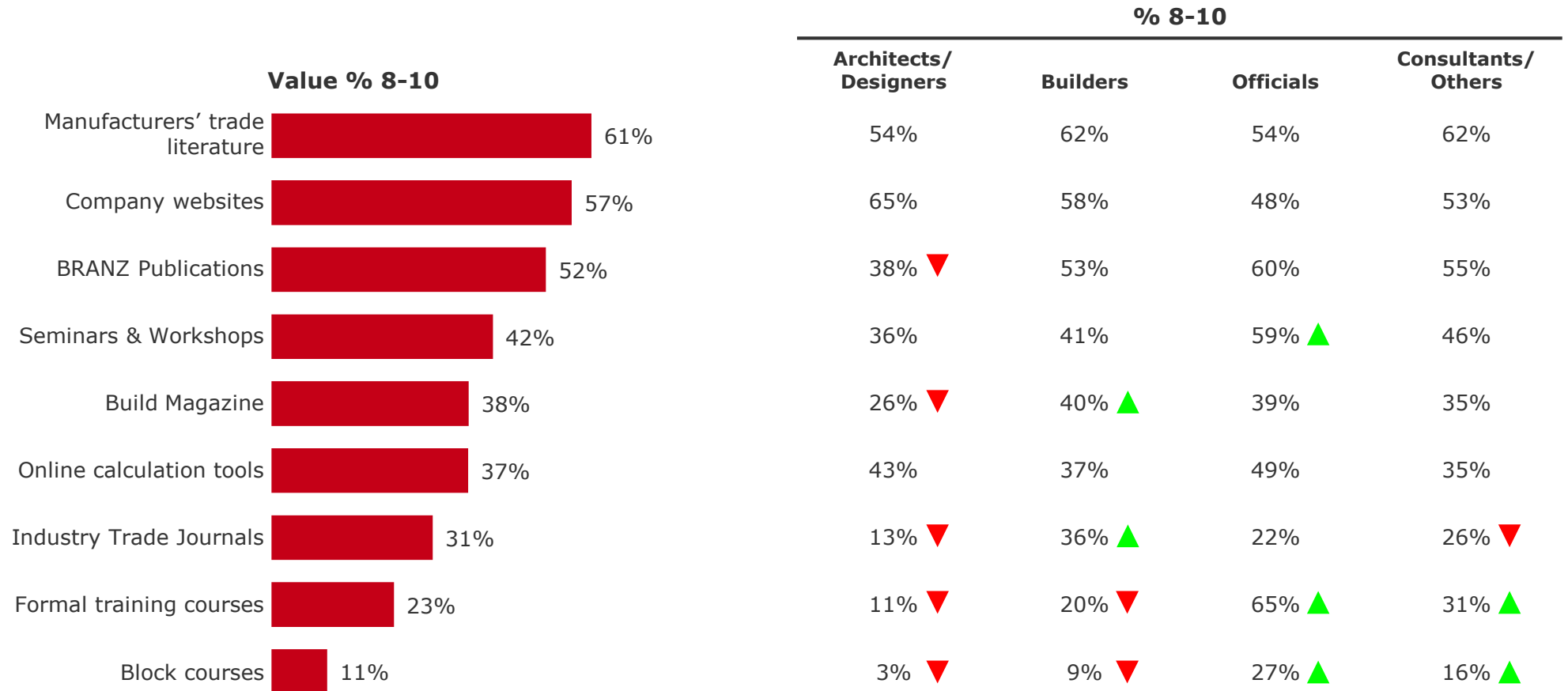


NOTES:

1. Sample size n = 1,077
2. When seeking information to help with your work, how valuable are each of the following sources to you?

Architects / designers tend to place less value on the various sources of information available, while officials are more receptive to seminars, workshops and formal training courses

Value of sources of information⁽¹⁾⁽²⁾



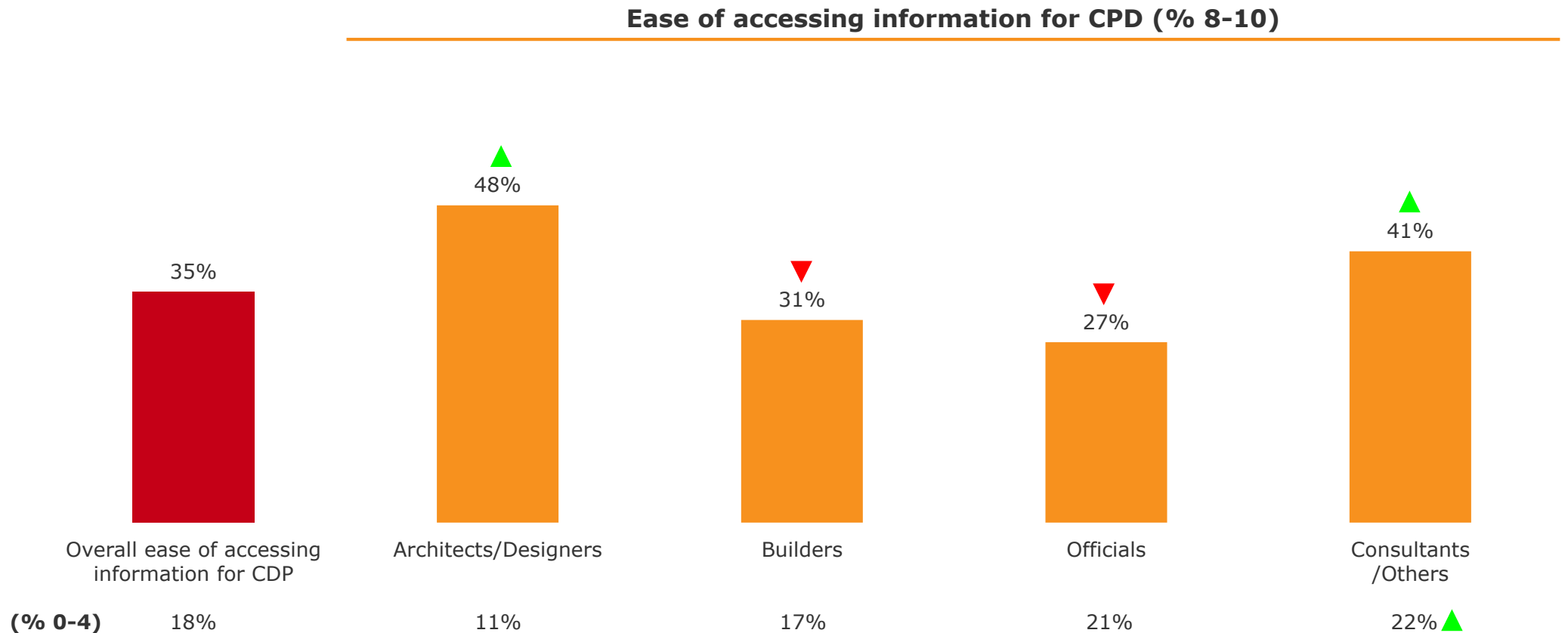
NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. When seeking information to help with your work, how valuable are each of the following sources to you?

▲ Significantly higher than total
▼ Significantly lower than total

Builders and officials find it harder to access information for their continuing professional development (CPD) than other industry groups

Ease of finding information for personal development⁽¹⁾⁽²⁾



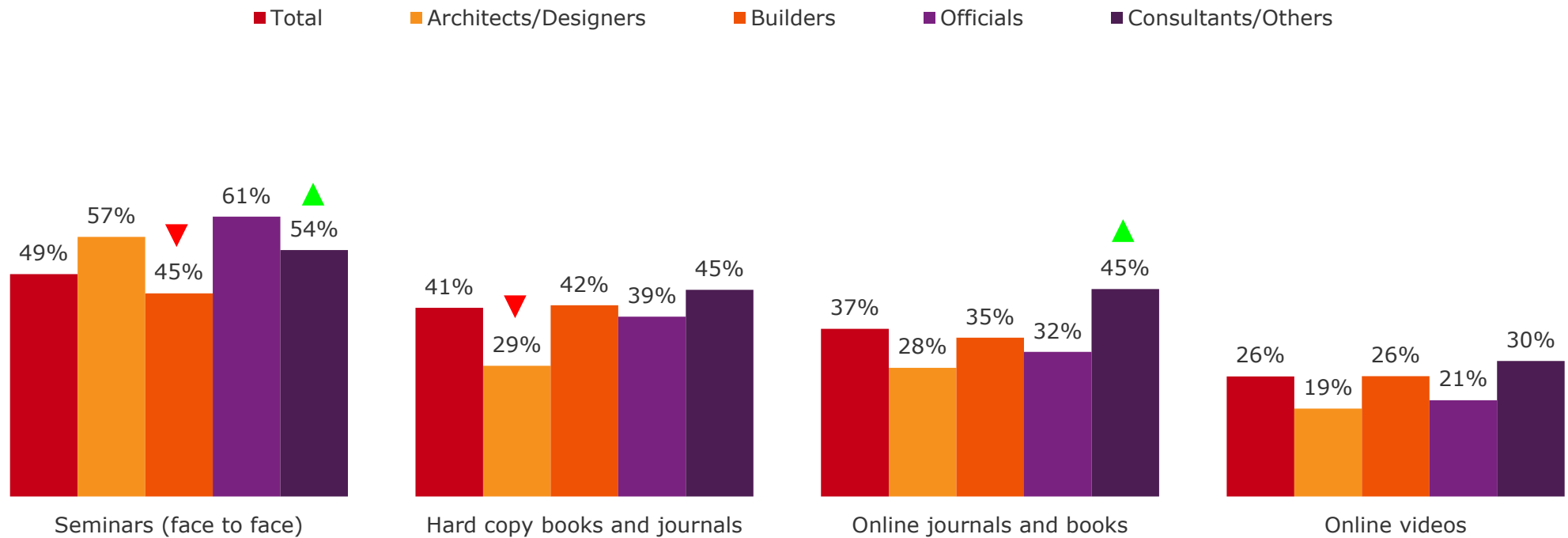
NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. How easy do you find accessing information for 'Continuing Professional Development'?

▲ Significantly higher than total
▼ Significantly lower than total

Seminars are the most preferred delivery method for CPD, while online videos are the least preferred

Preferred delivery method: information for continuing professional development (% 8-10)⁽¹⁾⁽²⁾



NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. What preference do you have for each of the delivery methods in relation to 'Continuing Professional Development'?

▲ Significantly higher than total
▼ Significantly lower than total

Building codes and standards, product info and compliance documents are the topics that the industry most wants to have information for available electronically

Topics most want to access information about electronically (% 8-10)⁽¹⁾⁽²⁾

		Architects/ Designers	Builders	Officials	Consultants/ Others
Building codes and standards	74%	67%	77% ▲	70%	70%
Product information	68%	64%	69%	67%	67%
Compliance documents	58%	57%	59%	57%	55%
Design information	50%	60% ▲	49%	52%	49%
General industry related information	49%	34% ▼	49%	49%	56% ▲
Industry related magazine articles	32%	27%	32%	41%	32%
Information on industry related books/journals for purchase	29%	22%	27%	29%	34% ▲
Online journals	28%	31%	25% ▼	34%	36% ▲
None	9%	9%	9%	7%	7%

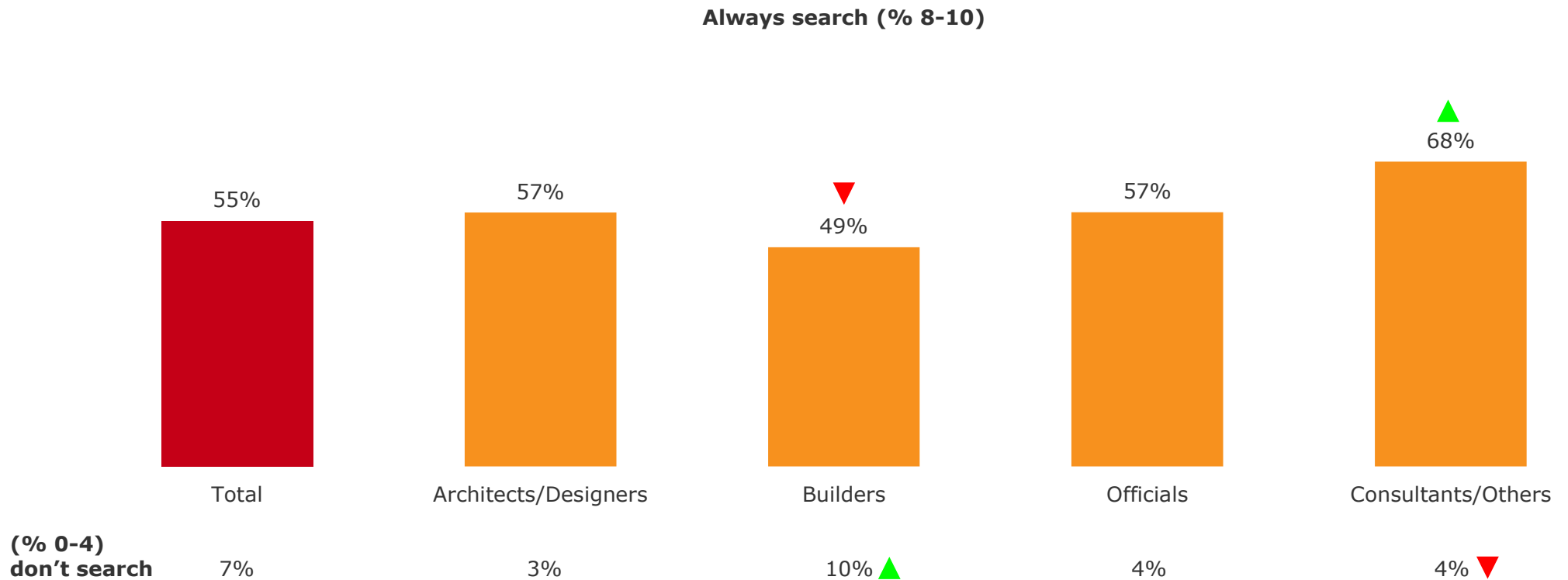
NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. From the list below, which topics would you most want to have more information about available electronically?

▲ Significantly higher than total
▼ Significantly lower than total

Consultants / others are the most likely to search for additional information on products they are about to use, and while builders are the least likely around half still almost always search

Extent of search for info on products about to use⁽¹⁾⁽²⁾



NOTES:

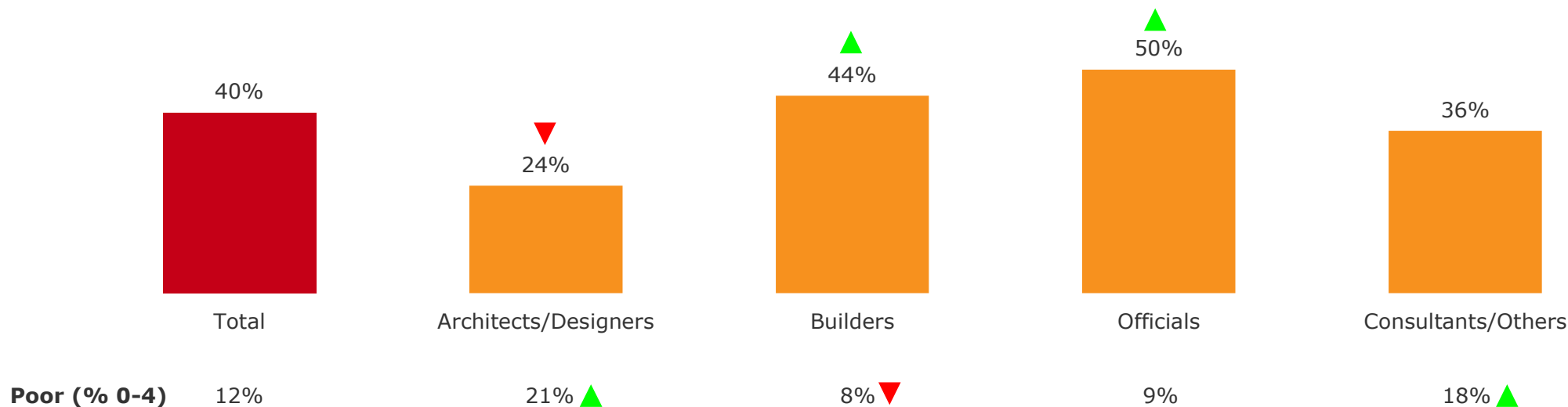
1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. To what extent do you verify or search for additional information about products you are about to use?

▲ Significantly higher than total
▼ Significantly lower than total

Builders and officials rate BRANZ the highest for being good at selecting research projects to create new knowledge

BRANZ being good at selecting research projects to create new knowledge⁽¹⁾⁽²⁾

Evaluate BRANZ highly for selecting research topics (% 8-10)



NOTES:

1. Sample size: Total n = 1,077, Architects / designers n = 308, Builders n = 379, Officials n = 246, Consultants / others n = 144
2. How good is BRANZ at selecting research projects that create new and valuable knowledge for the building & construction industry?

▲ Significantly higher than total
▼ Significantly lower than total