

## Lighting retrofit in current practice

### Evaluation of an international survey within the IEA Task 50

B. Paule / J. Kaempf

➔ Focus on the Brazilian context



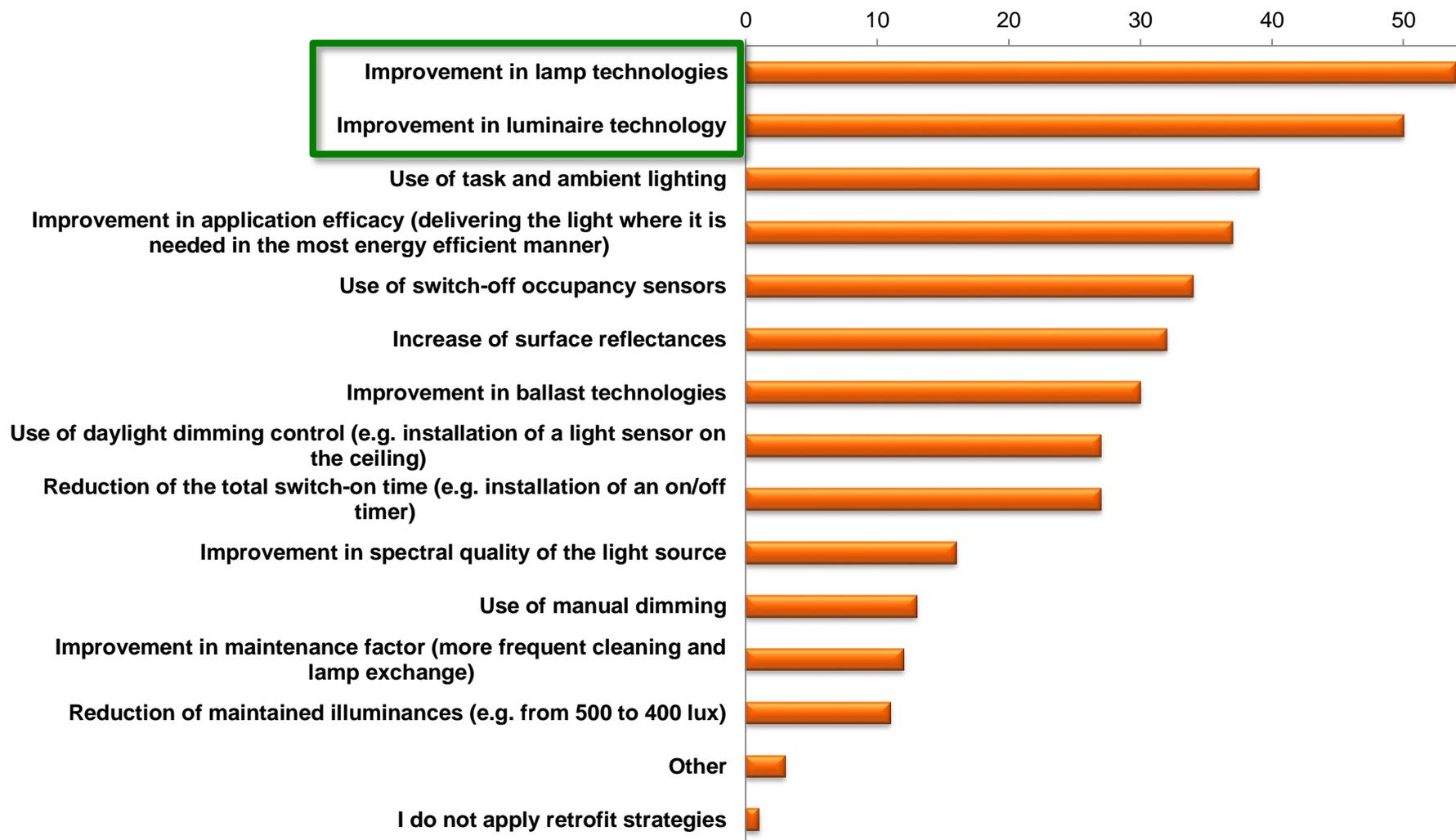
# SubTask C: Method and Tools

## C1 – Analysis of workflow and needs

- Answers per language
- Total answer : 1169
- Available answers : 1075

Language	Nb of respondents
French	421
English	285
German	224
Dutch	82
<b>Portuguese (Brazil)</b>	<b>72</b>
Finish	30
Italian	24
Danish	19
Spanish	8
Japanese	4

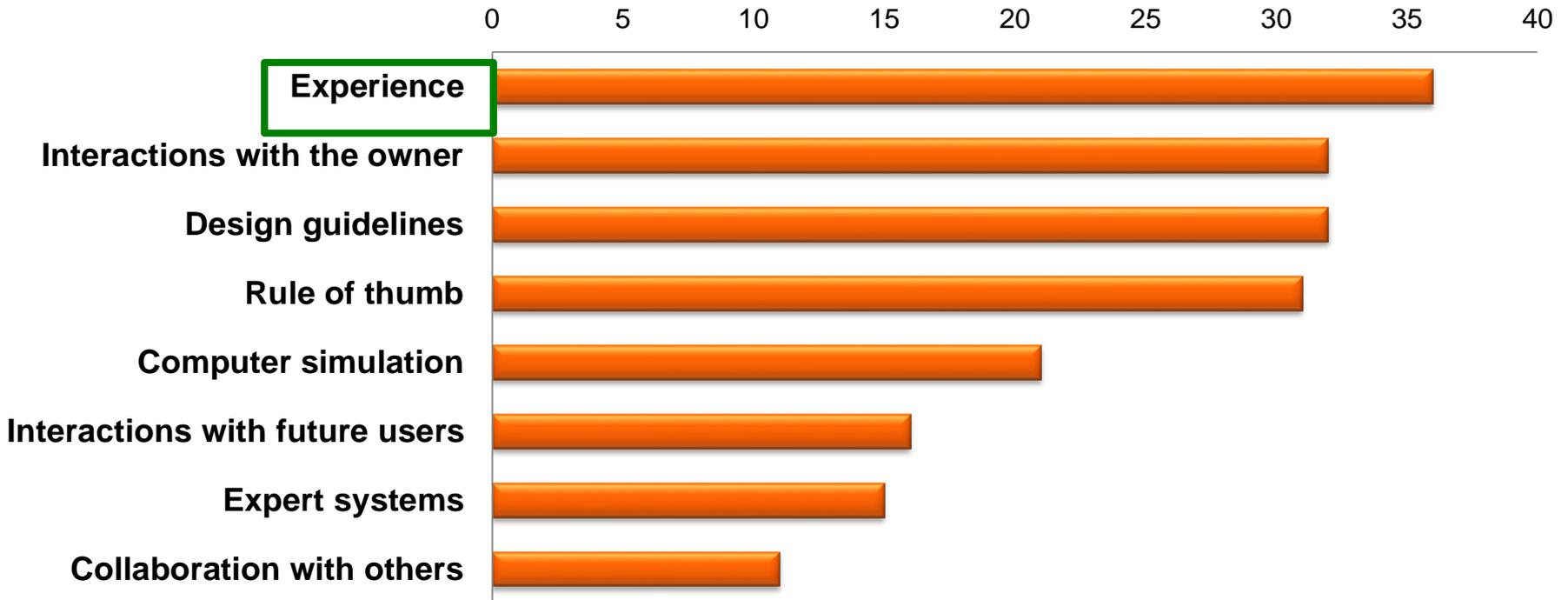
## Q4 : Please select the main retrofit strategies you use in your current practice.



**Q5: Please indicate for each design phase, the type of tools or methods you use**

## **DAYLIGHTING**

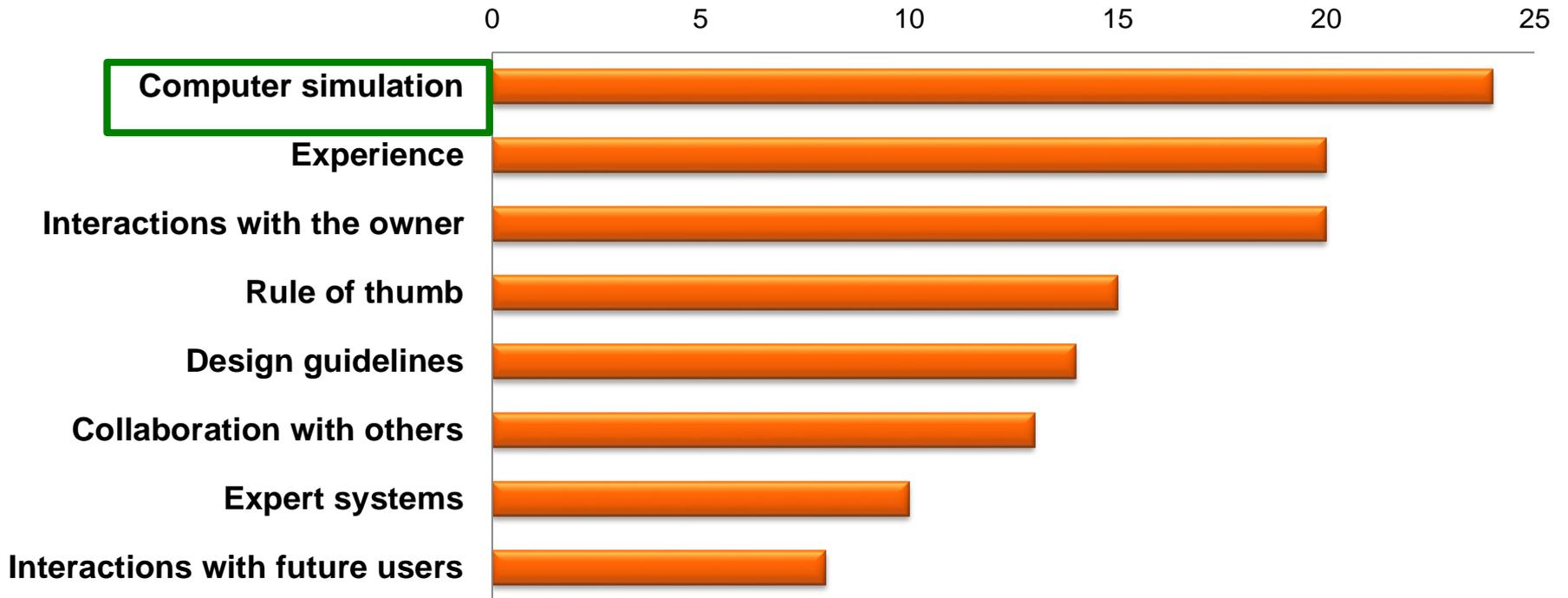
### **Preliminary studies**



**Q5: Please indicate for each design phase, the type of tools or methods you use**

## **DAYLIGHTING**

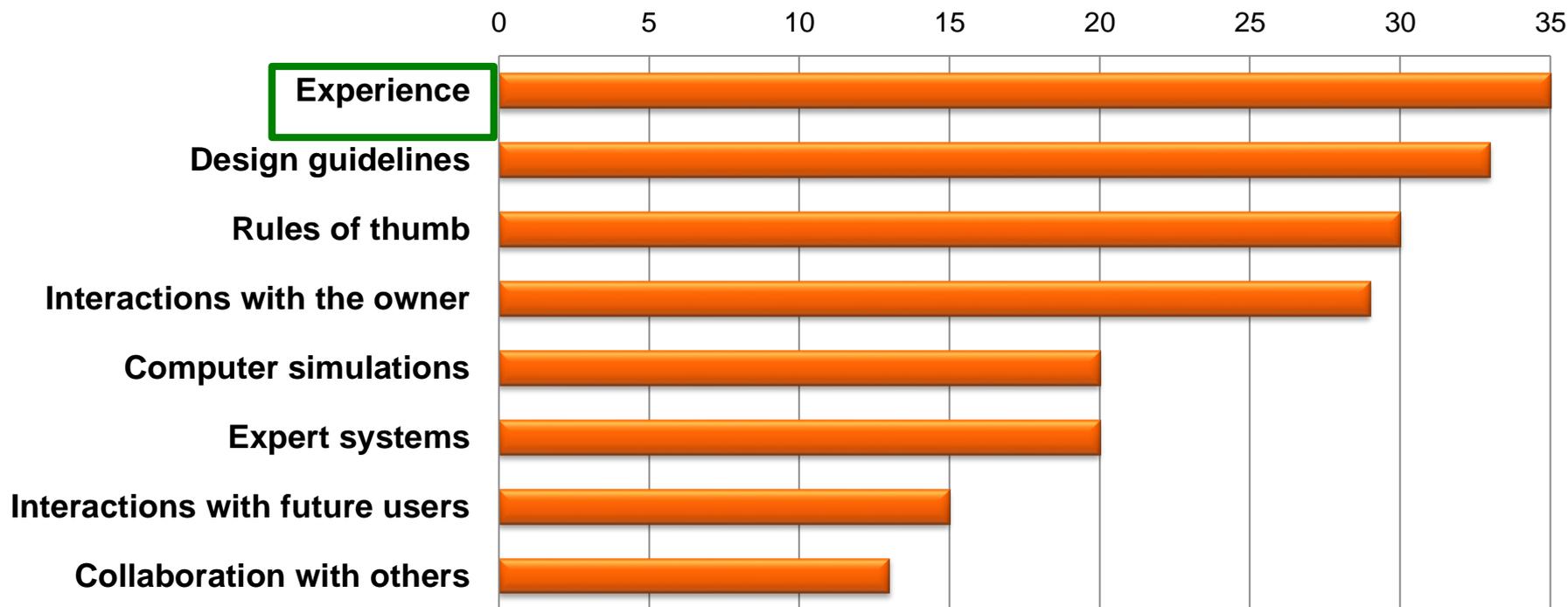
### **Detailed design**



**Q6: Please indicate for each design phase, the type of tools or methods you use**

## **ELECTRIC LIGHTING**

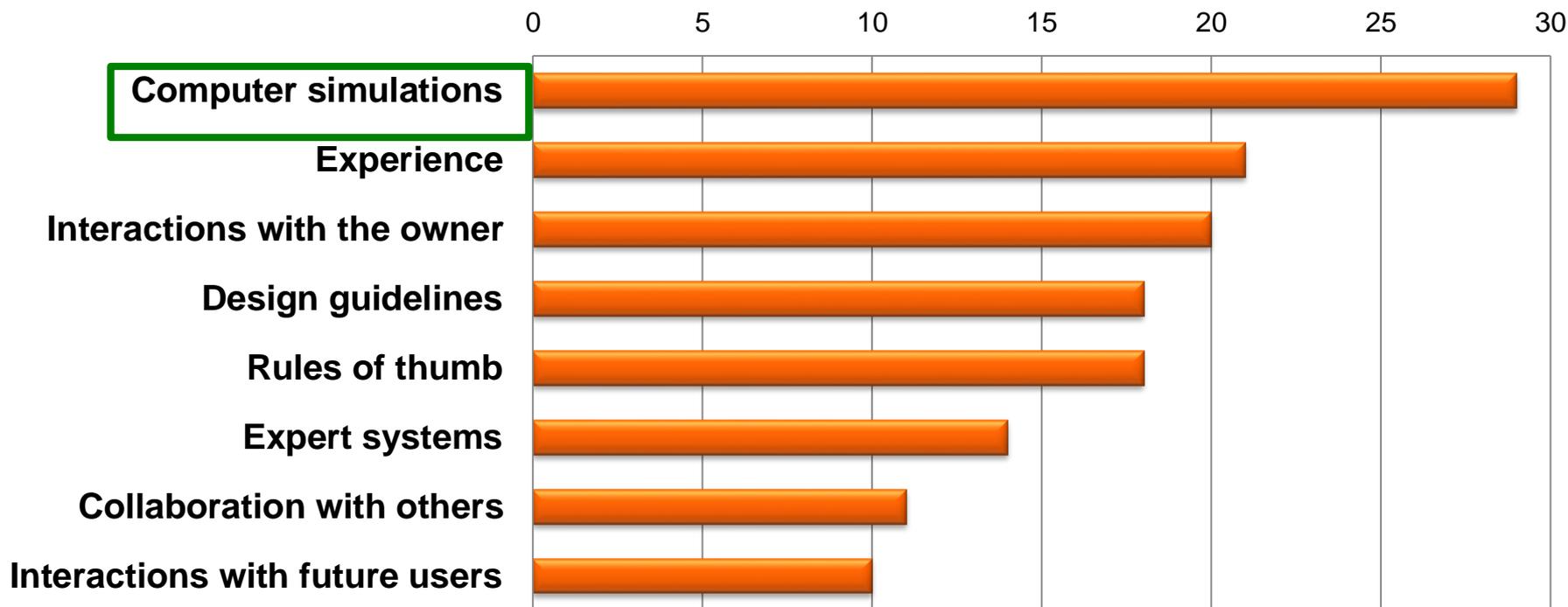
### **Preliminary Studies**



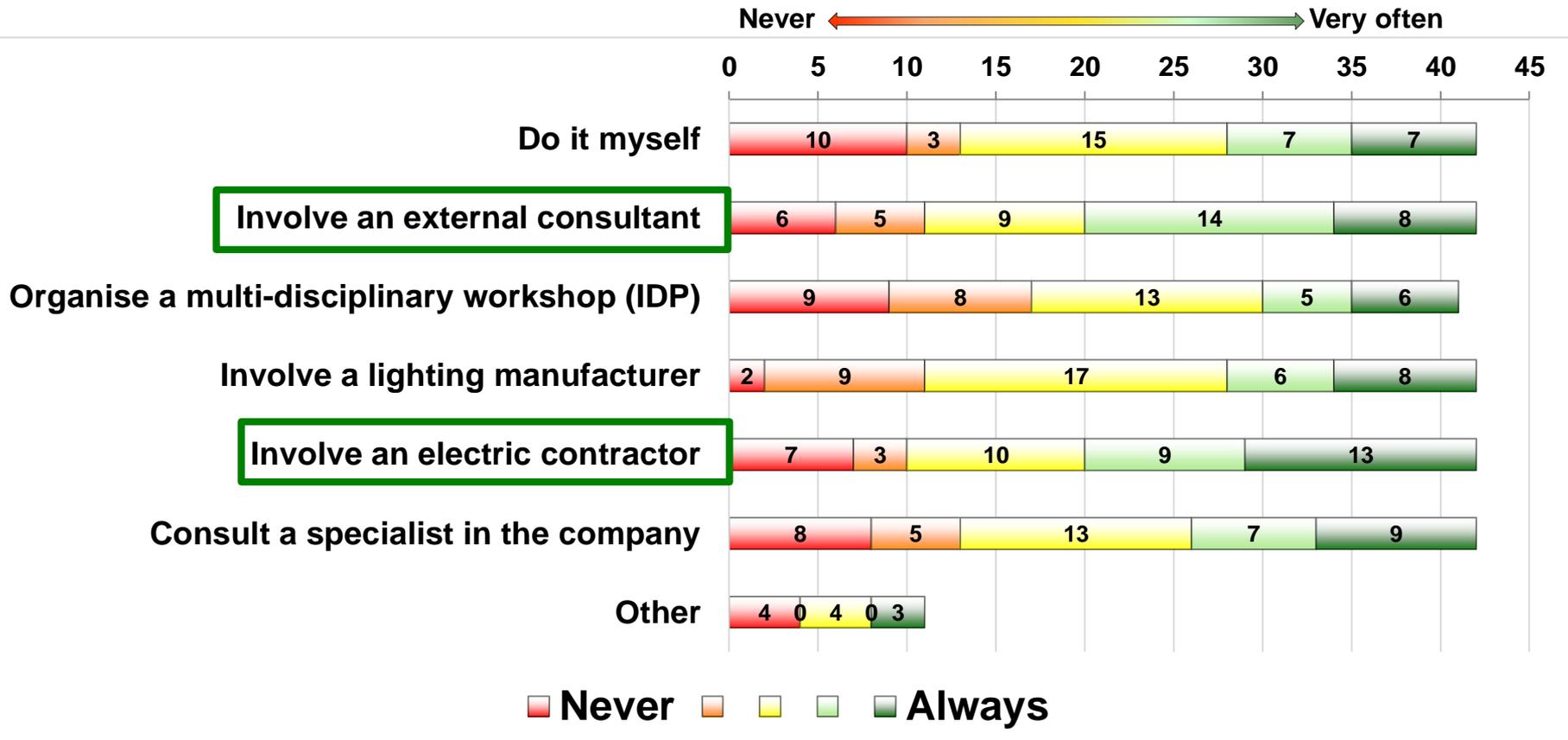
**Q6: Please indicate for each design phase, the type of tools or methods you use**

## ***ELECTRIC LIGHTING***

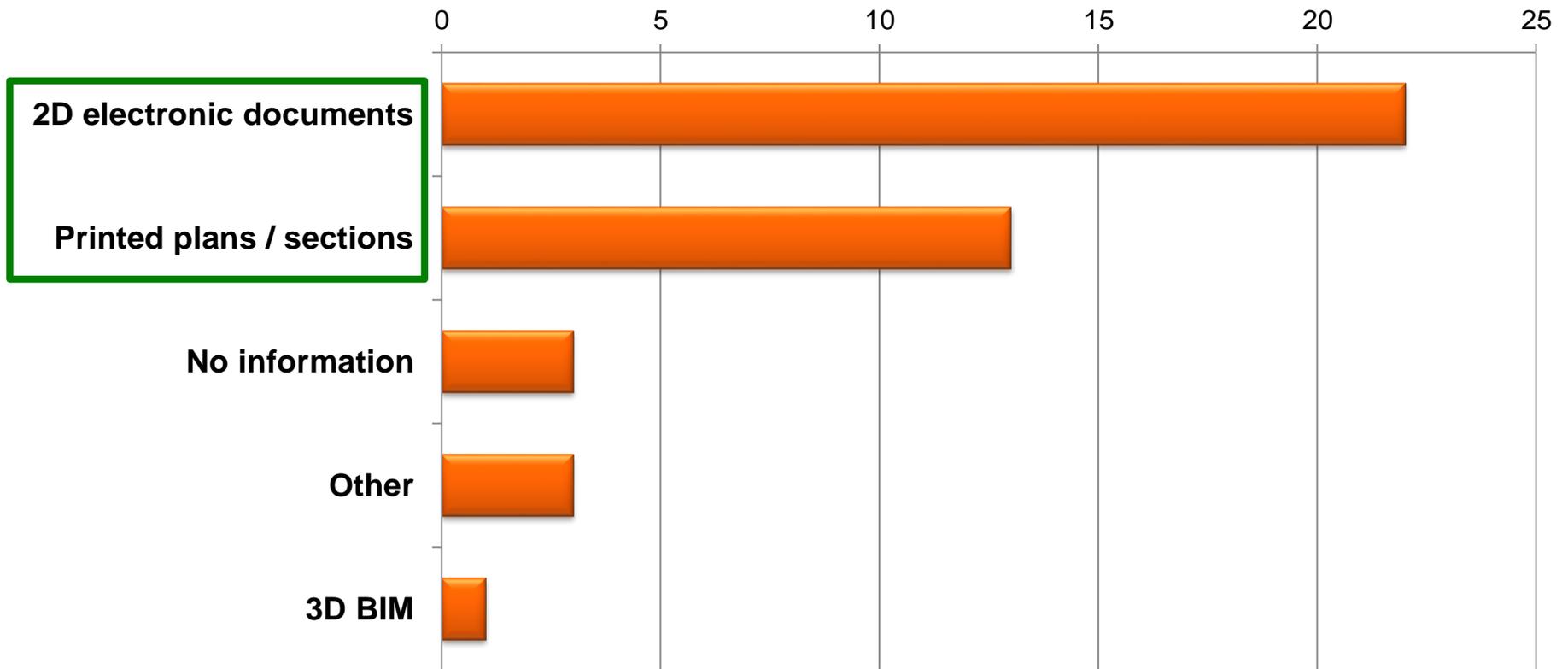
### **Detailed design**



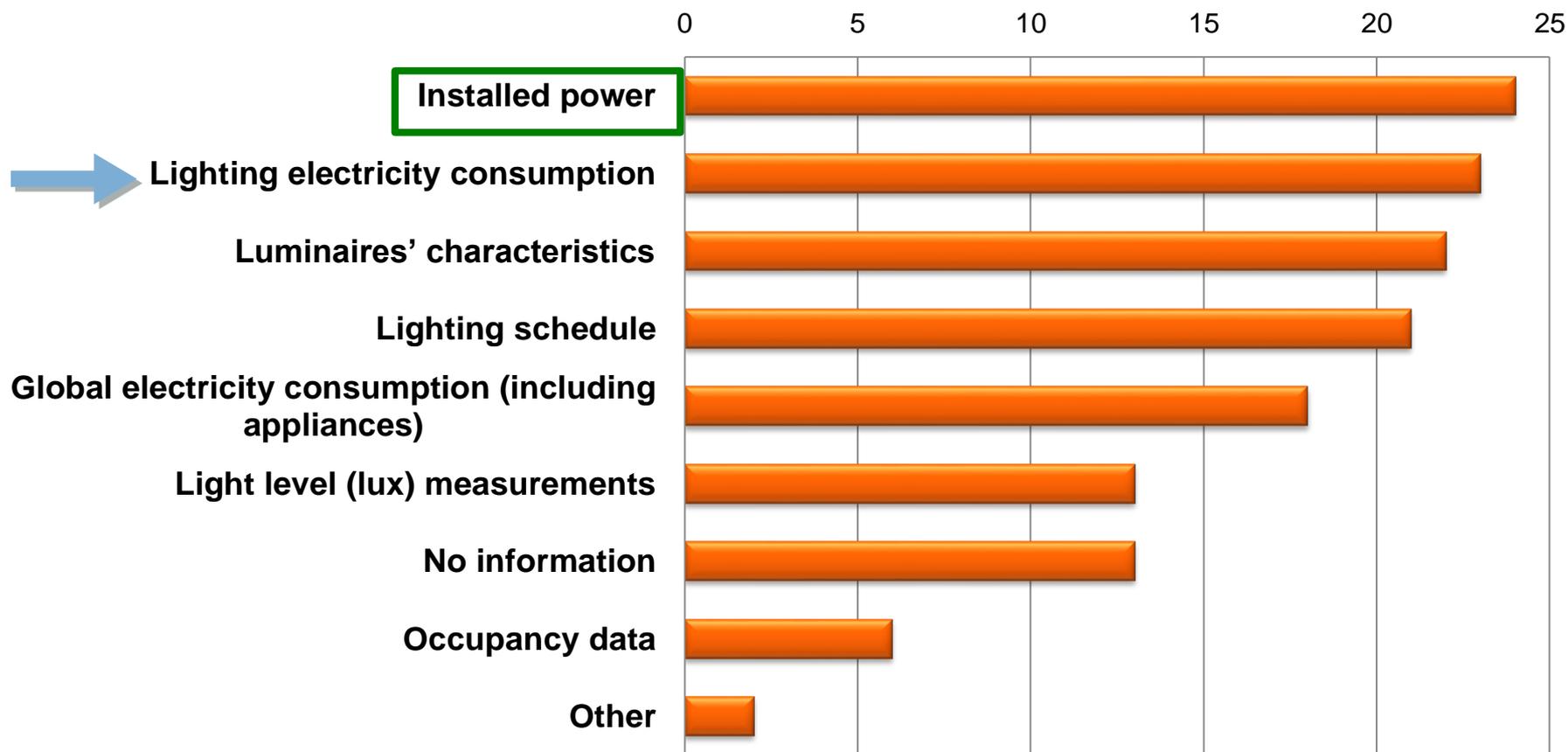
# Q7 : How do you usually handle the design and decision process concerning the integration of lighting technologies in retrofit projects ?



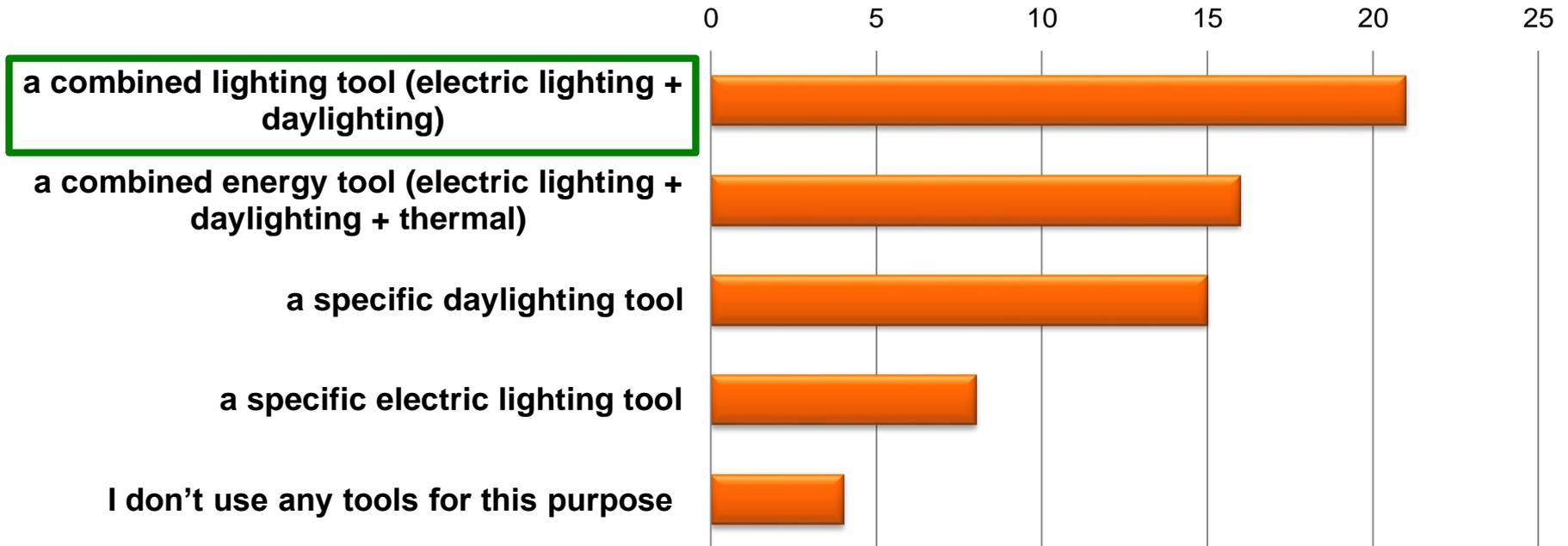
**Q8: What kind of information about the BUILDING or INFRASTRUCTURE is usually available at the beginning of your lighting retrofit projects ?**



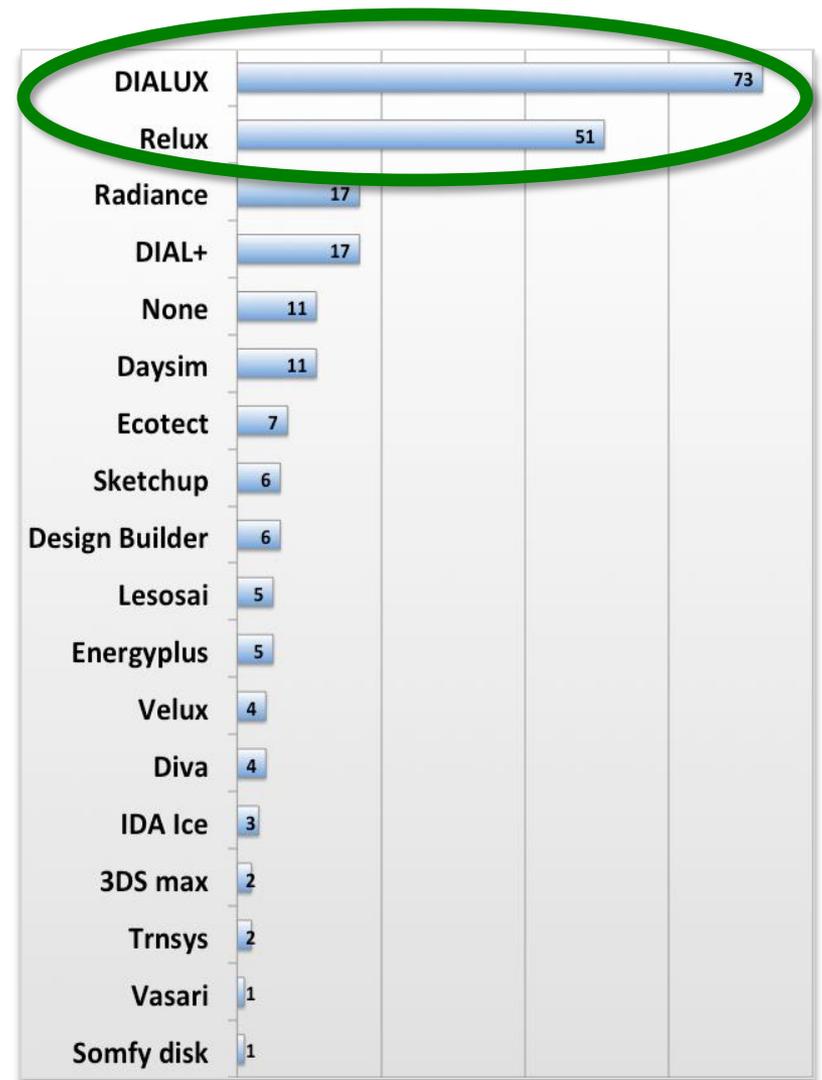
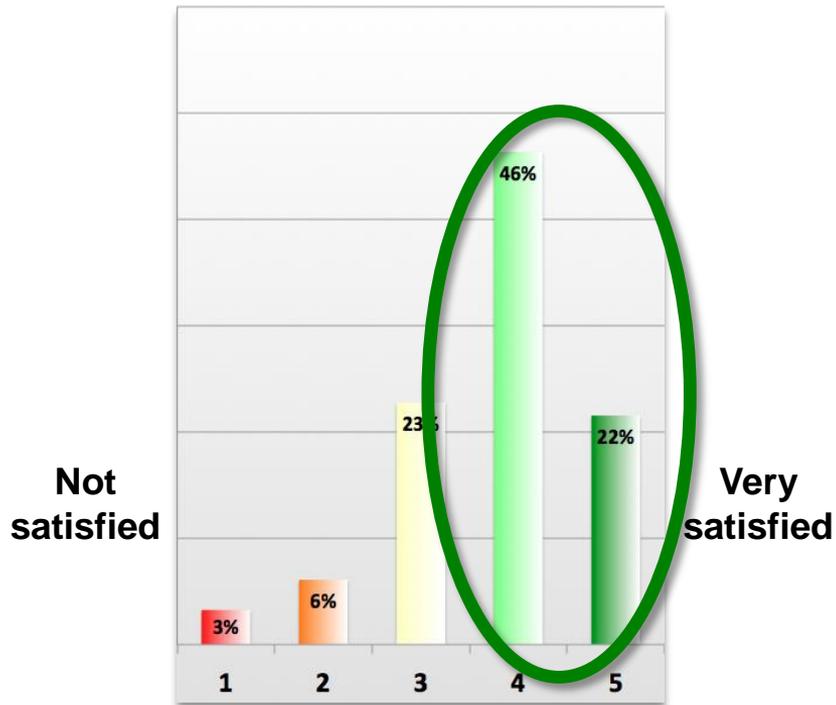
## Q9: What information is usually available about the EXISTING LIGHTING SITUATION at the beginning of the lighting retrofit projects?



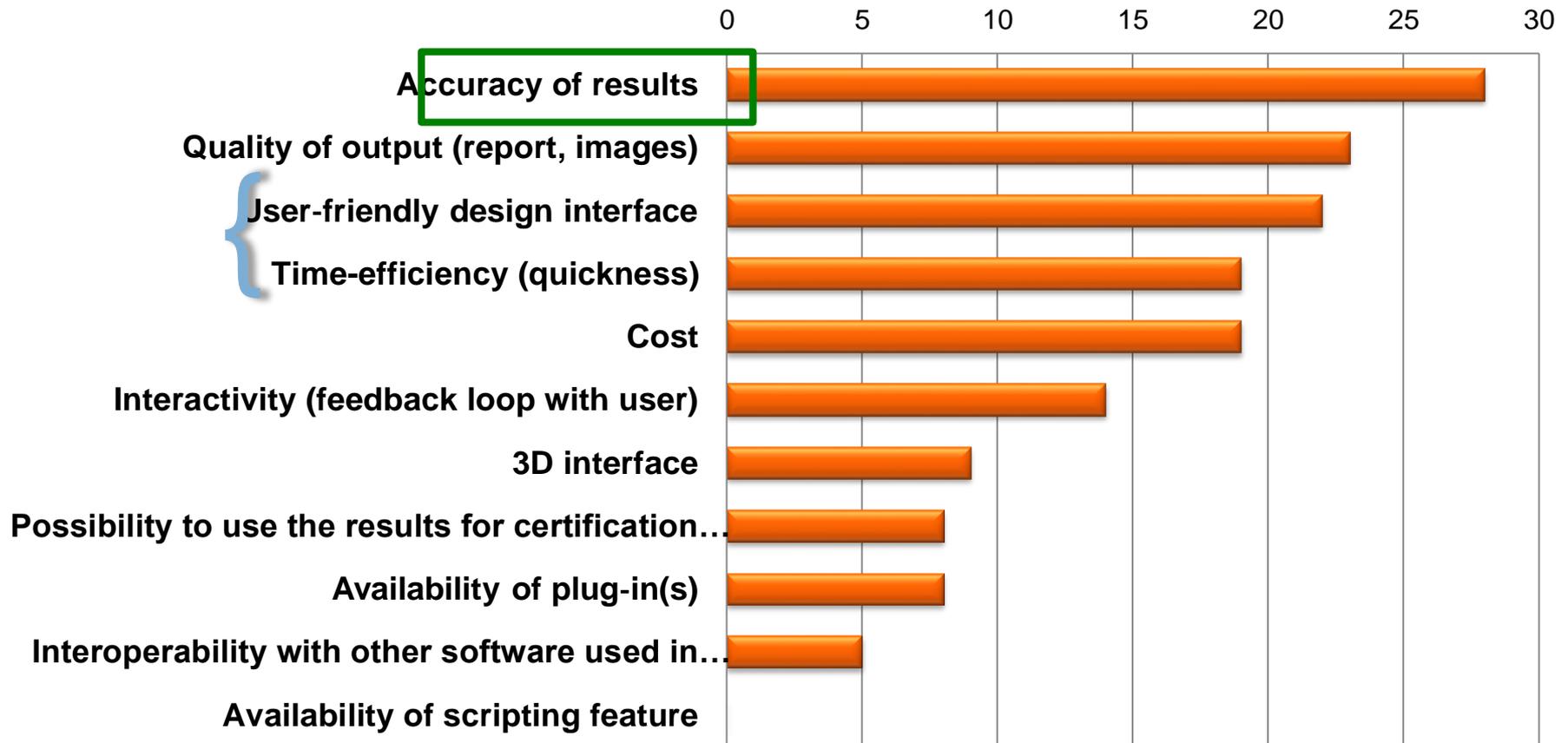
**Q12: In your office /, which type of tool(s) do you normally use for daylighting and electric lighting analysis?**



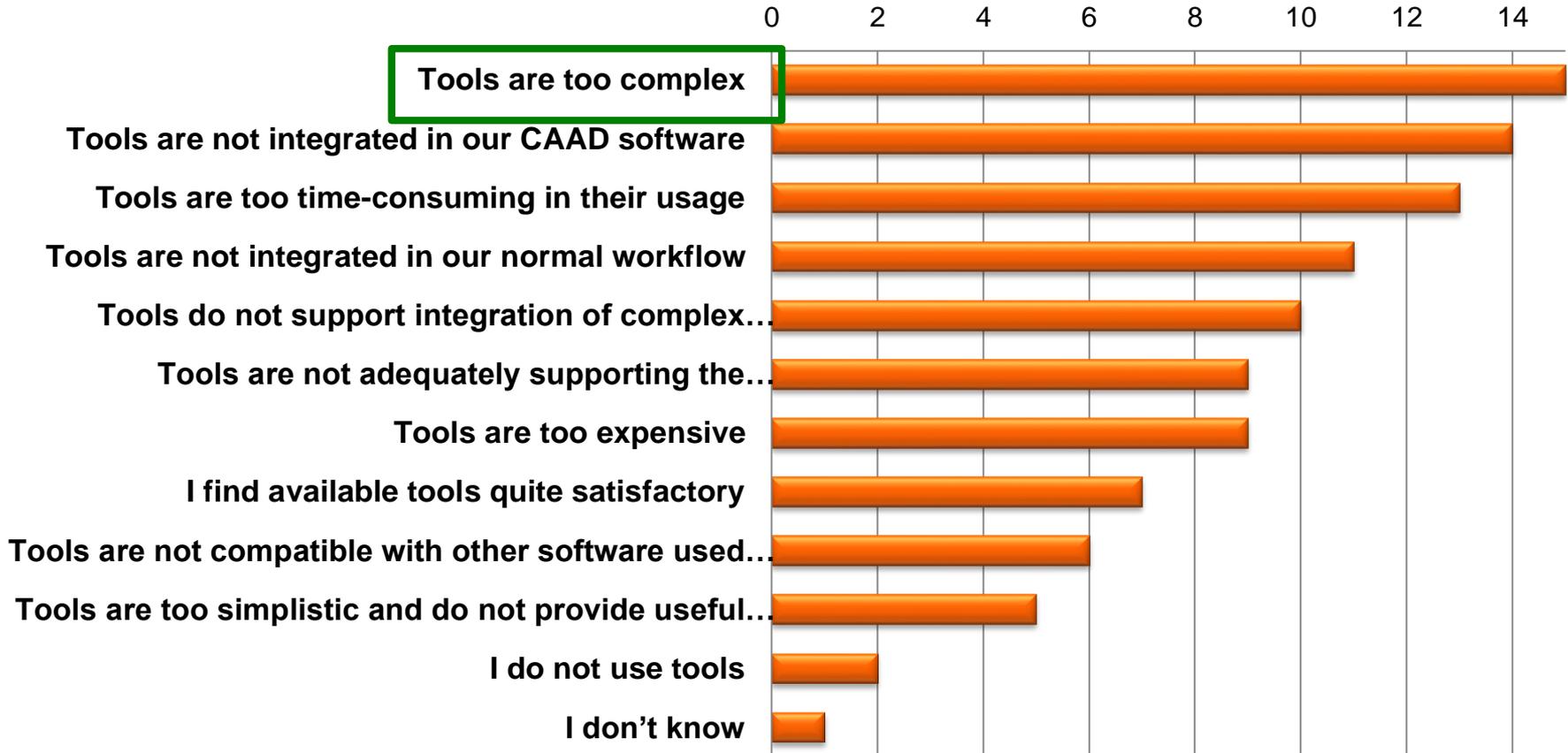
**Q134a: Simulation tools**  
 (Global results)



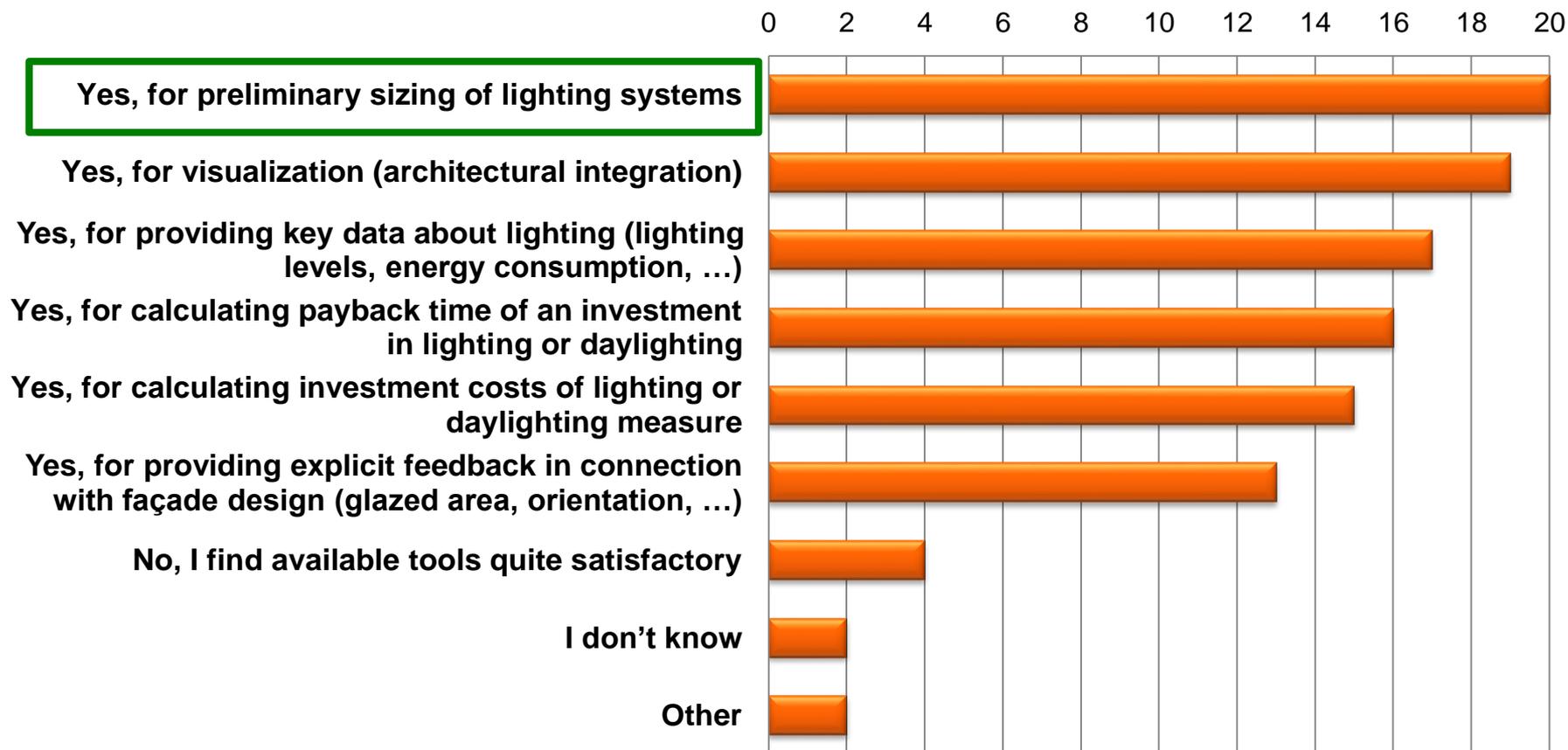
## Q14: Please list the up to 5 factors that most influence your choice of software



**Q15: Among the following list, please select the up to 5 most important barriers you identified when applying lighting or daylighting design as part of the retrofit process?**



## Q16: Do you see the need for improved tools to support the integration of electric lighting or daylighting considerations within the retrofit process?



## *The ideal tool ?*

- *Simple*
- *Fast*
- *Integrated with normal design flow*
- *Useful for preliminary design*
- *Combined (electric & daylighting + energy)*

*Completion of the questionnaire*

# *Final result*

*Available on a website  
Global result*

