

# IEA SHC Task 50: Advanced lighting solutions for retrofitting buildings



## Lighting retrofit in current practice



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

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# SubTask C: Method and Tools

## C1 – Analysis of workflow and needs

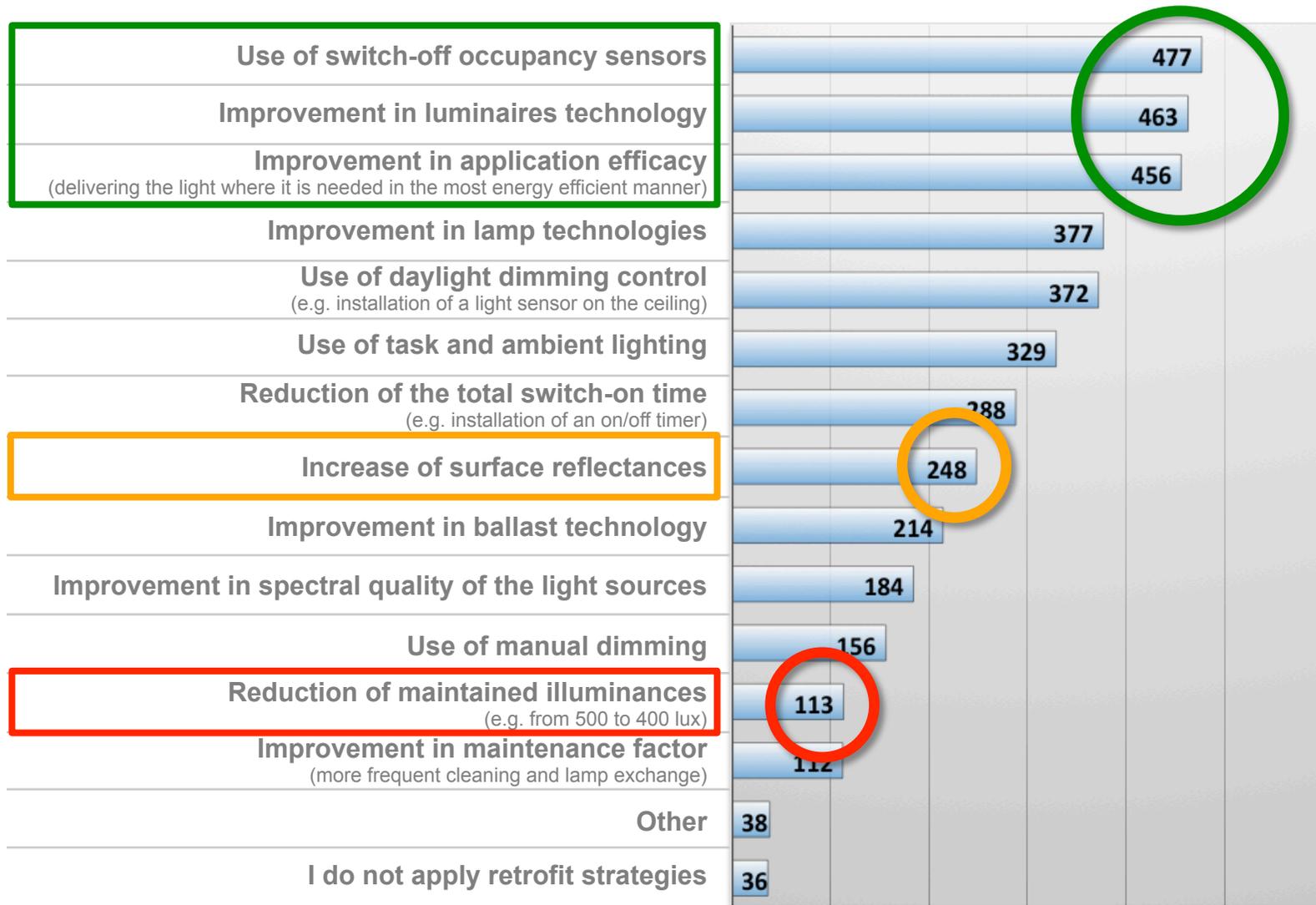


- Answers per language
- Total answer : 1169
- Available answers : 1075

<b>TASK [Deutsch]</b> Created November, 26 2013	09/09/14	<b>224</b>
<b>TASK [English]</b> Created July, 02 2013	09/05/14	<b>285</b>
<b>TASK [French]</b> Created November, 26 2013	08/27/14	<b>421</b>
<b>TASK [Finnish]</b> Created November, 07 2013	08/11/14	<b>30</b>
<b>TASK [Danish]</b> Created March, 14 2014	08/01/14	<b>19</b>
<b>TASK [Português do Brasil]</b> Created April, 02 2014	06/29/14	<b>72</b>
<b>TASK [Dutch]</b> Created January, 21 2014	06/20/14	<b>82</b>
<b>TASK [Spanish]</b> Created November, 26 2013	06/13/14	<b>8</b>
<b>TASK [Japan]</b> Created November, 12 2013	06/09/14	<b>4</b>
<b>TASK [Italian]</b> Created November, 12 2013	05/29/14	<b>24</b>
<b>TOTAL</b>		<b>1169</b>

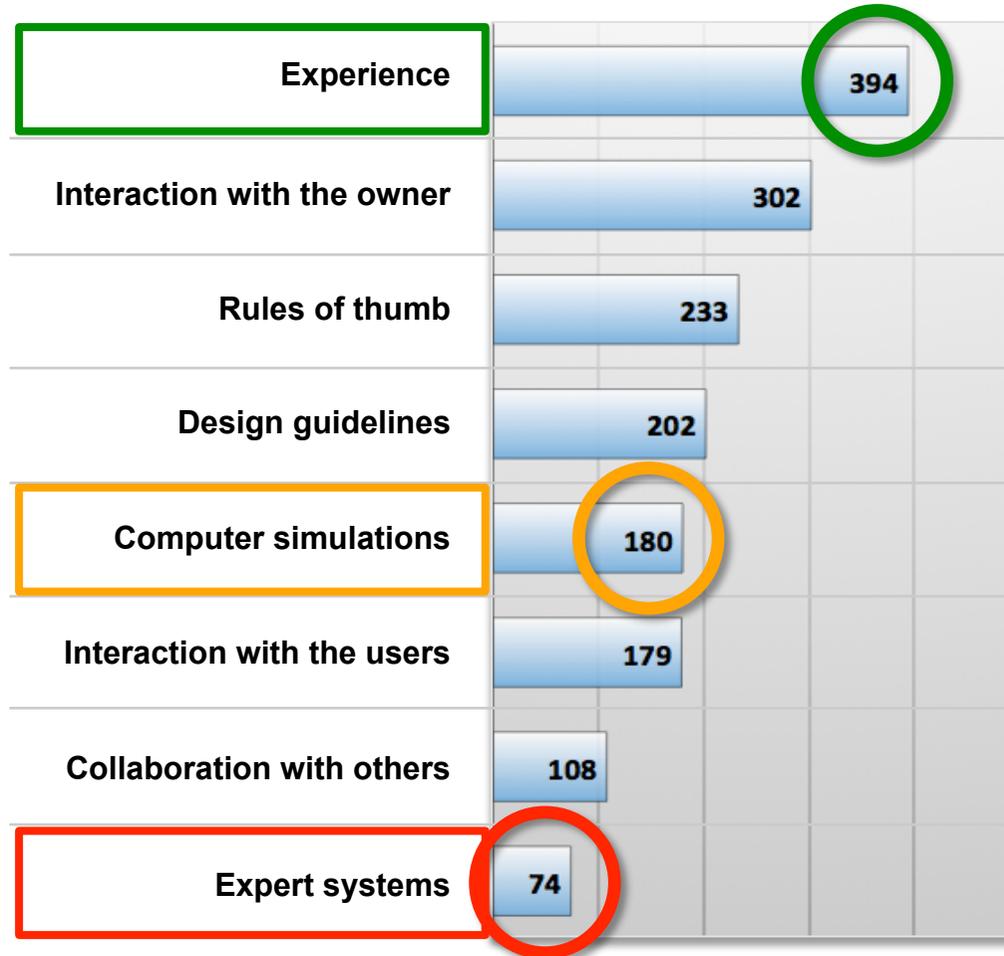


**Q4 : Please select the main retrofit strategies you use in your current practice.**



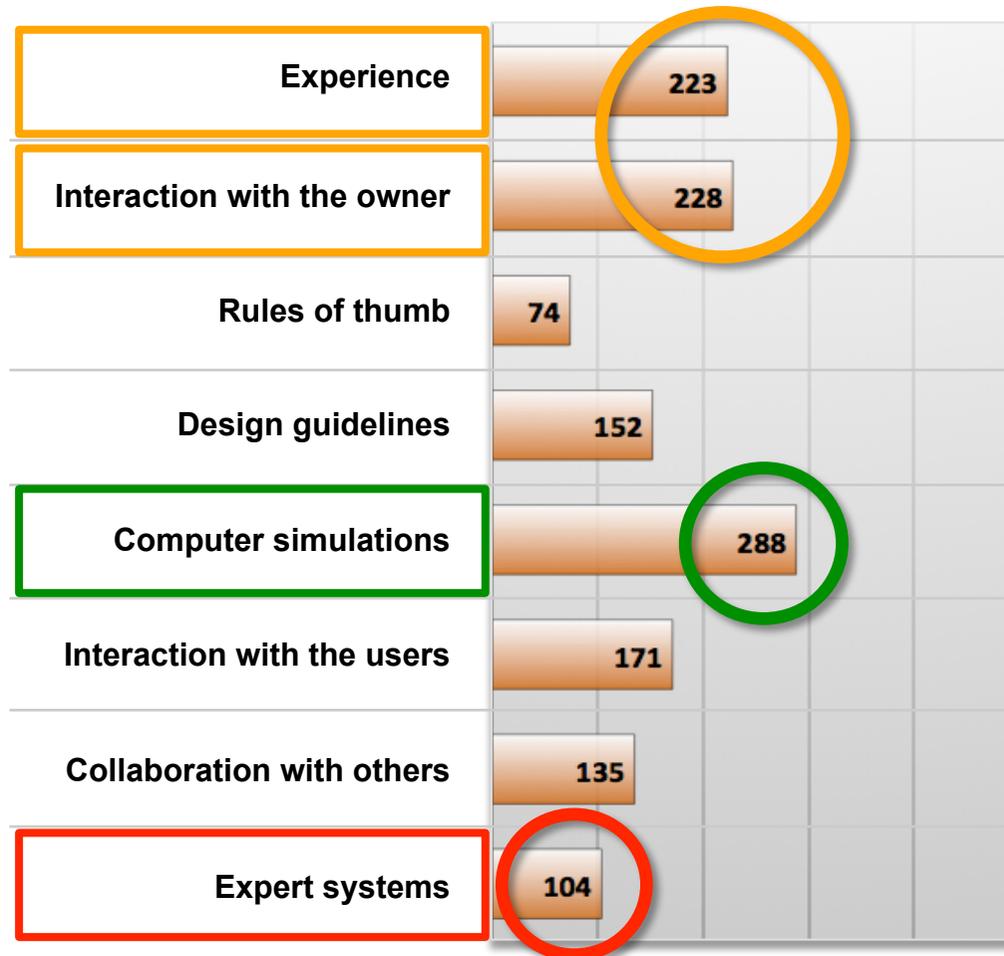
**Q5: Please indicate for each design phase, the type of tools or methods you use**

## **DAYLIGHTING : Preliminary study**



**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***

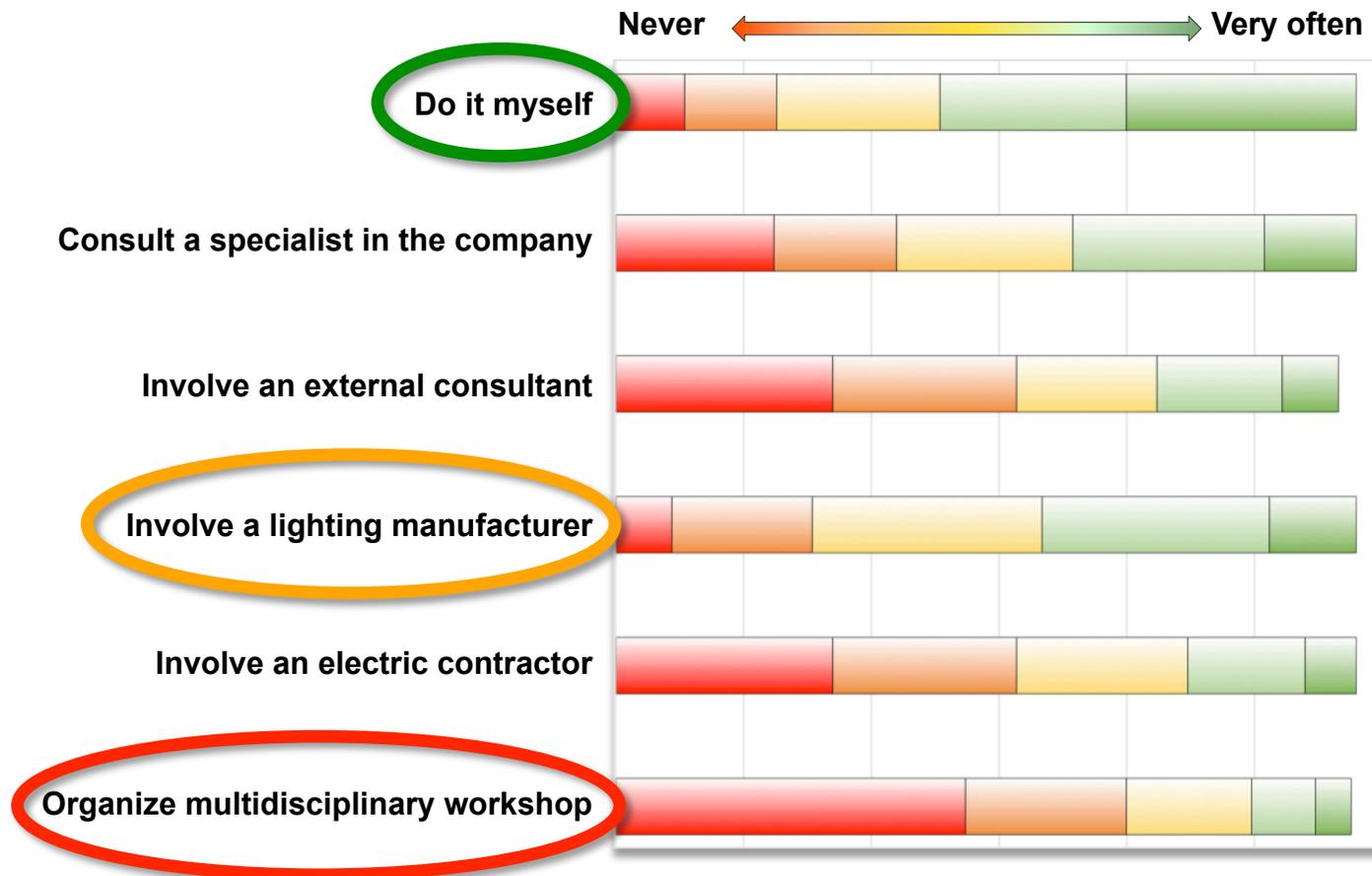


**Q6: Please indicate for each design phase, the type of tools or methods you use**

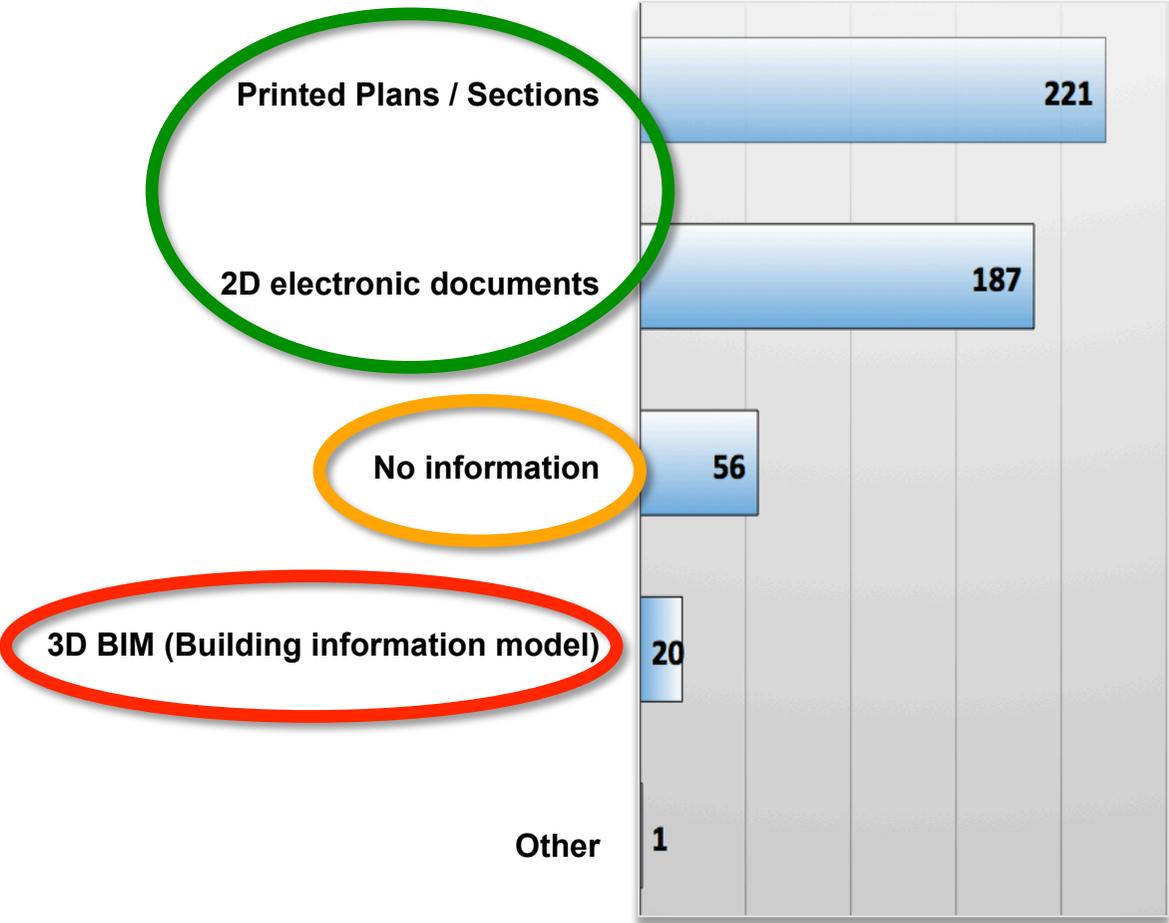
## ***ELECTRIC LIGHTING : Detailed design***



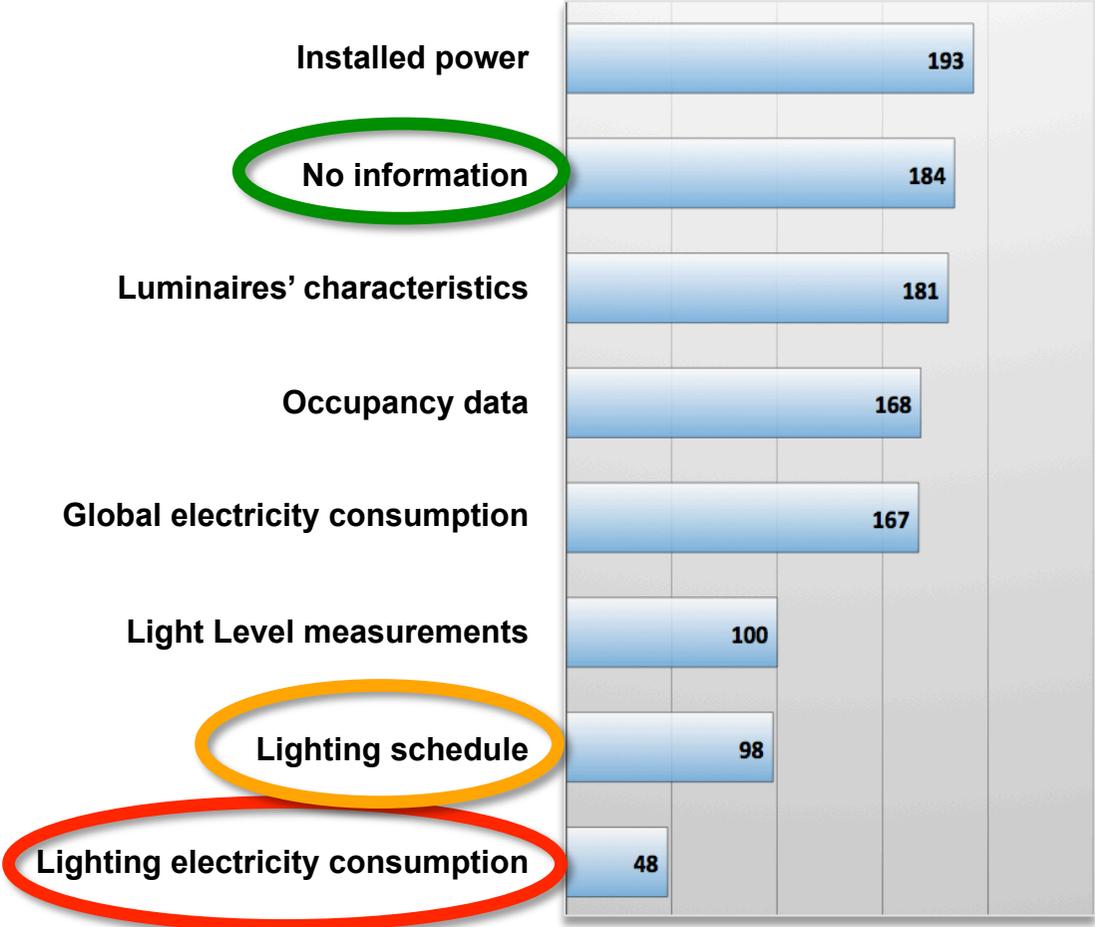
# Q7 : How do you usually handle the design and decision process concerning the integration of lighting technologies in retrofit projects ?



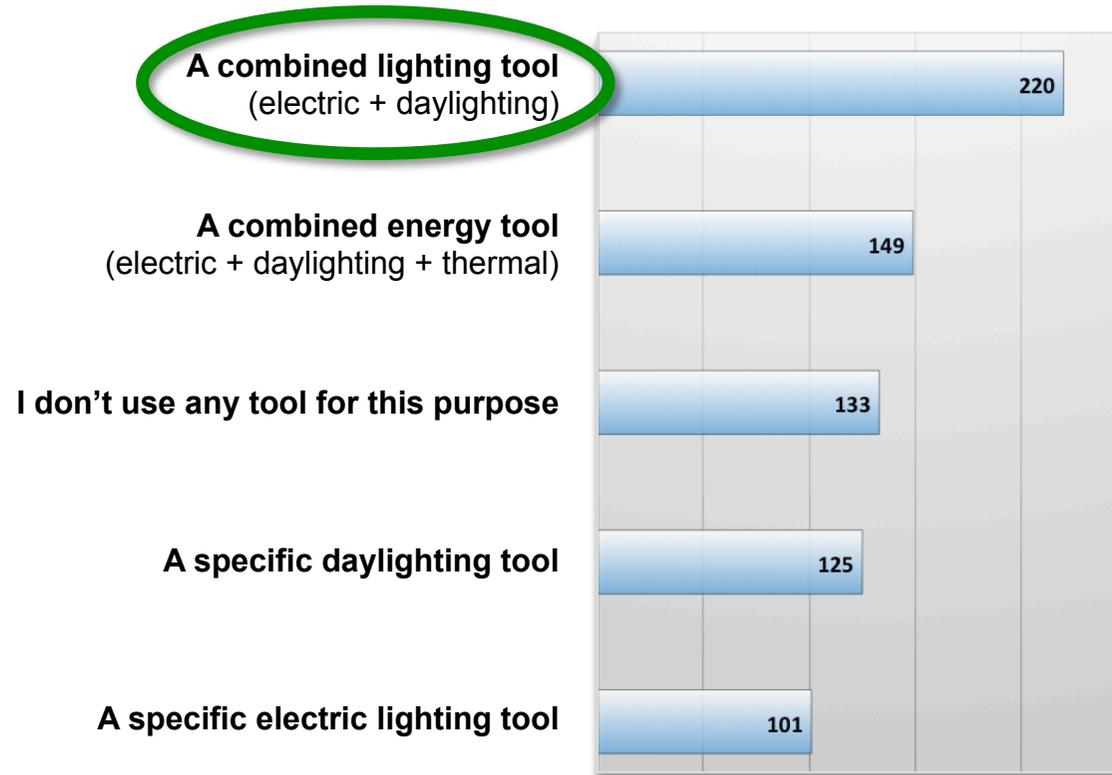
**Q8: What kind of information about the building or infrastructure is usually available at the beginning of your lighting retrofit projects ?**



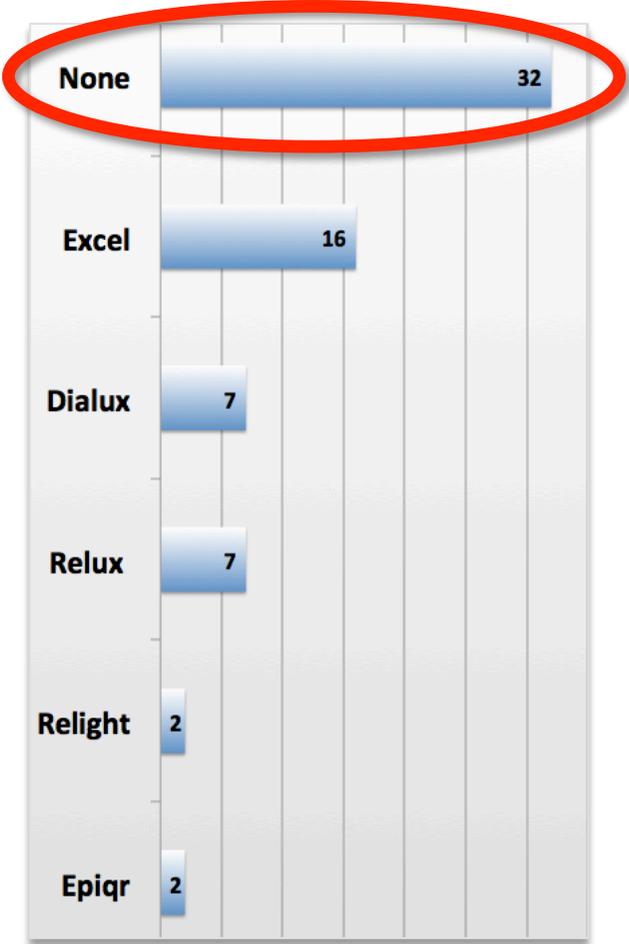
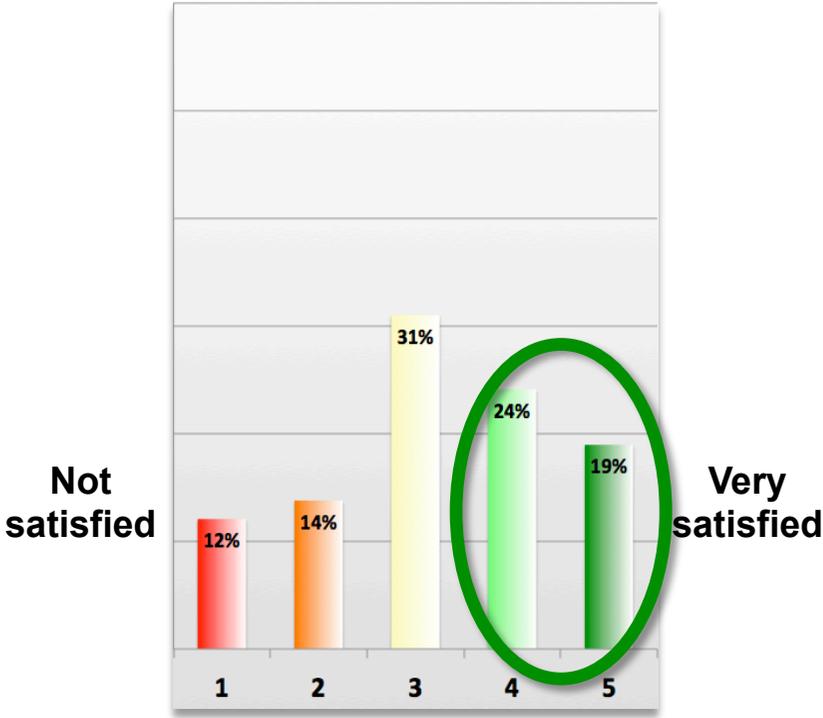
**Q9: What information is usually available about the EXISTING LIGHTING SITUATION at the beginning of the lighting retrofit projects?**



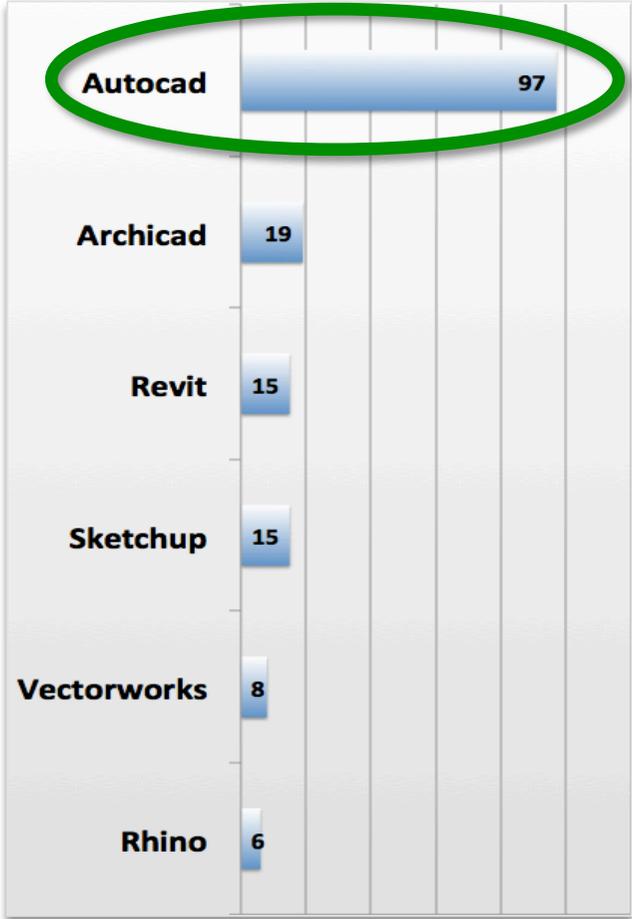
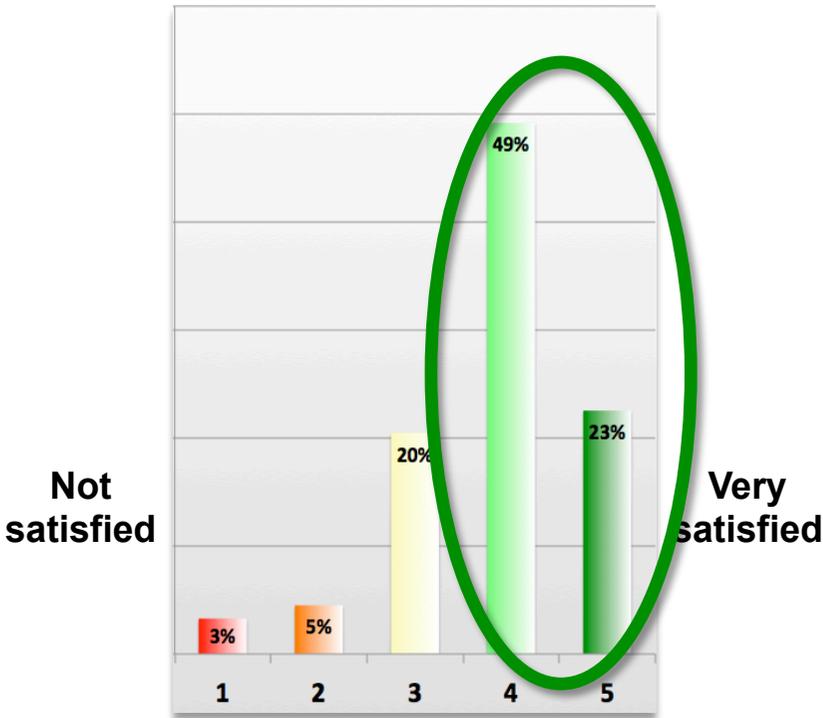
**Q12: In your office /, which type of tool(s) do you normally use for daylighting and electric lighting analysis?**



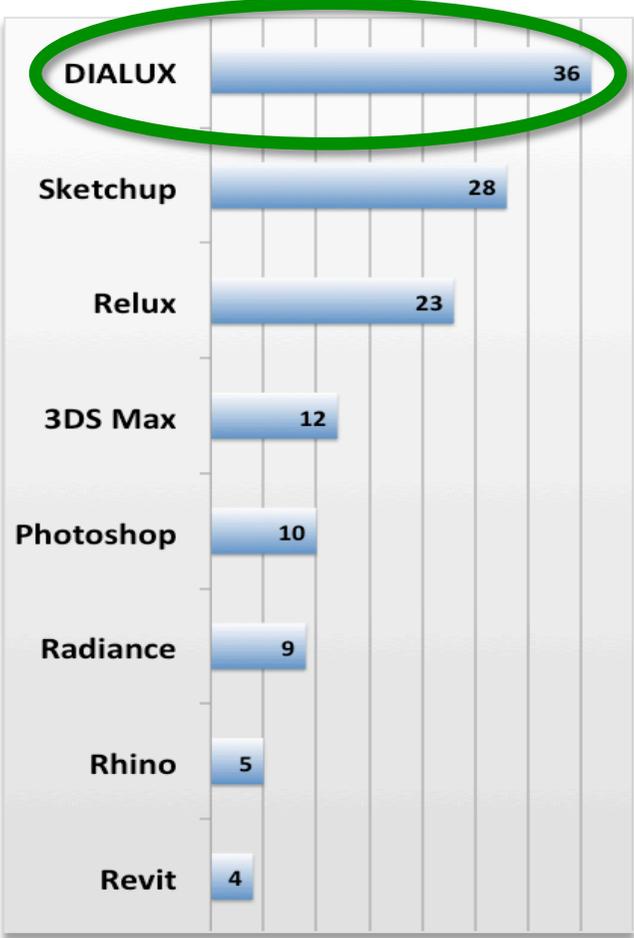
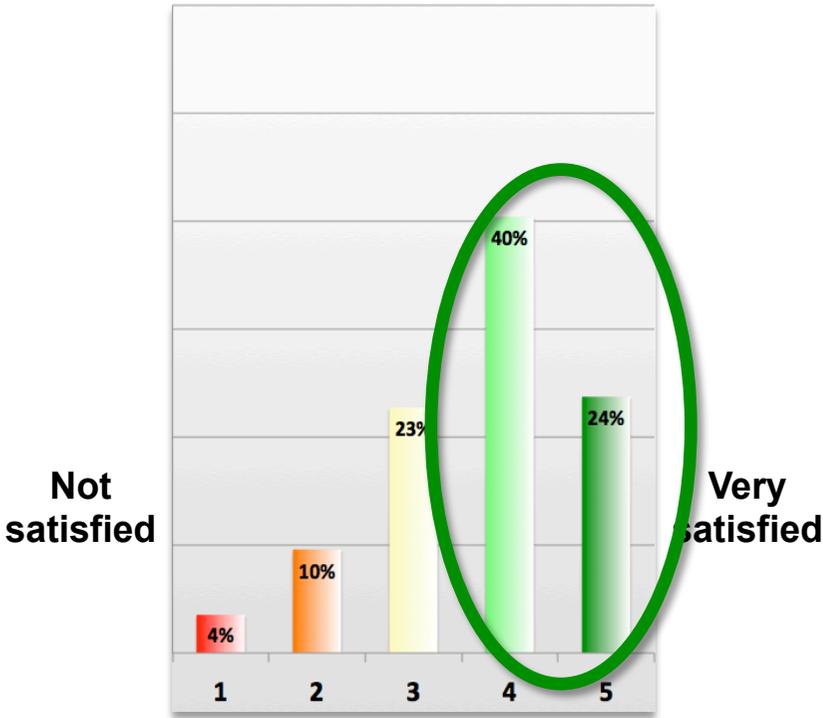
**Q134a: Facility management tools**



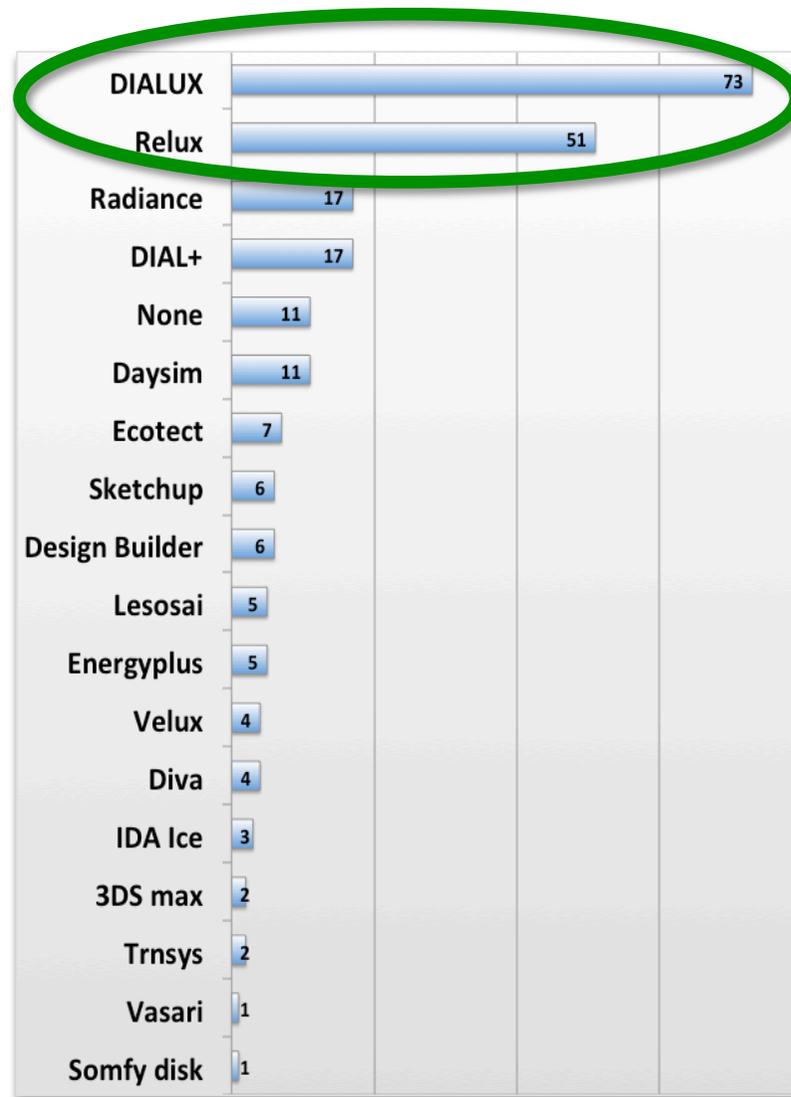
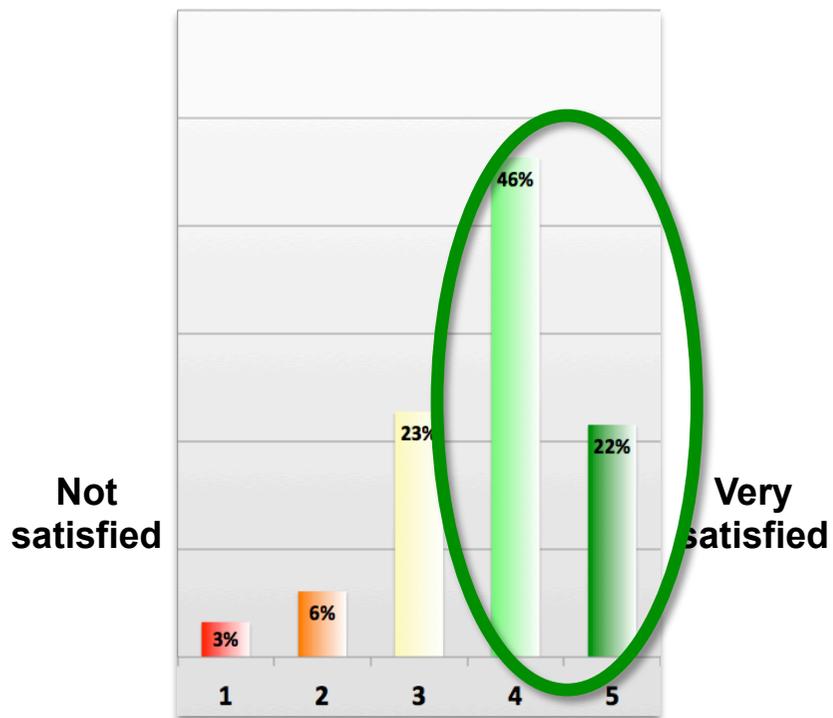
Q134a: CAAD -CAO tools



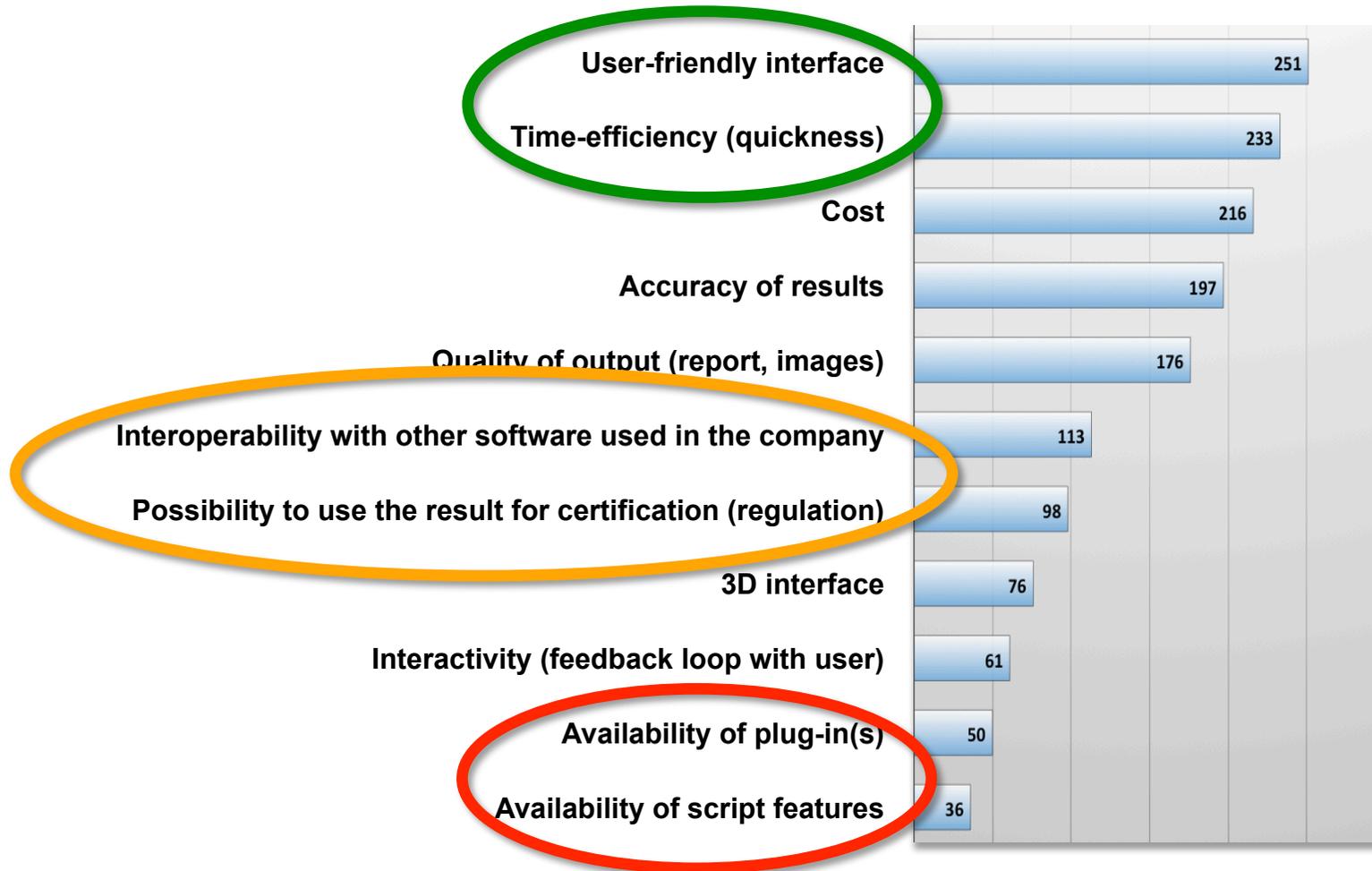
Q134a: Visualization tools



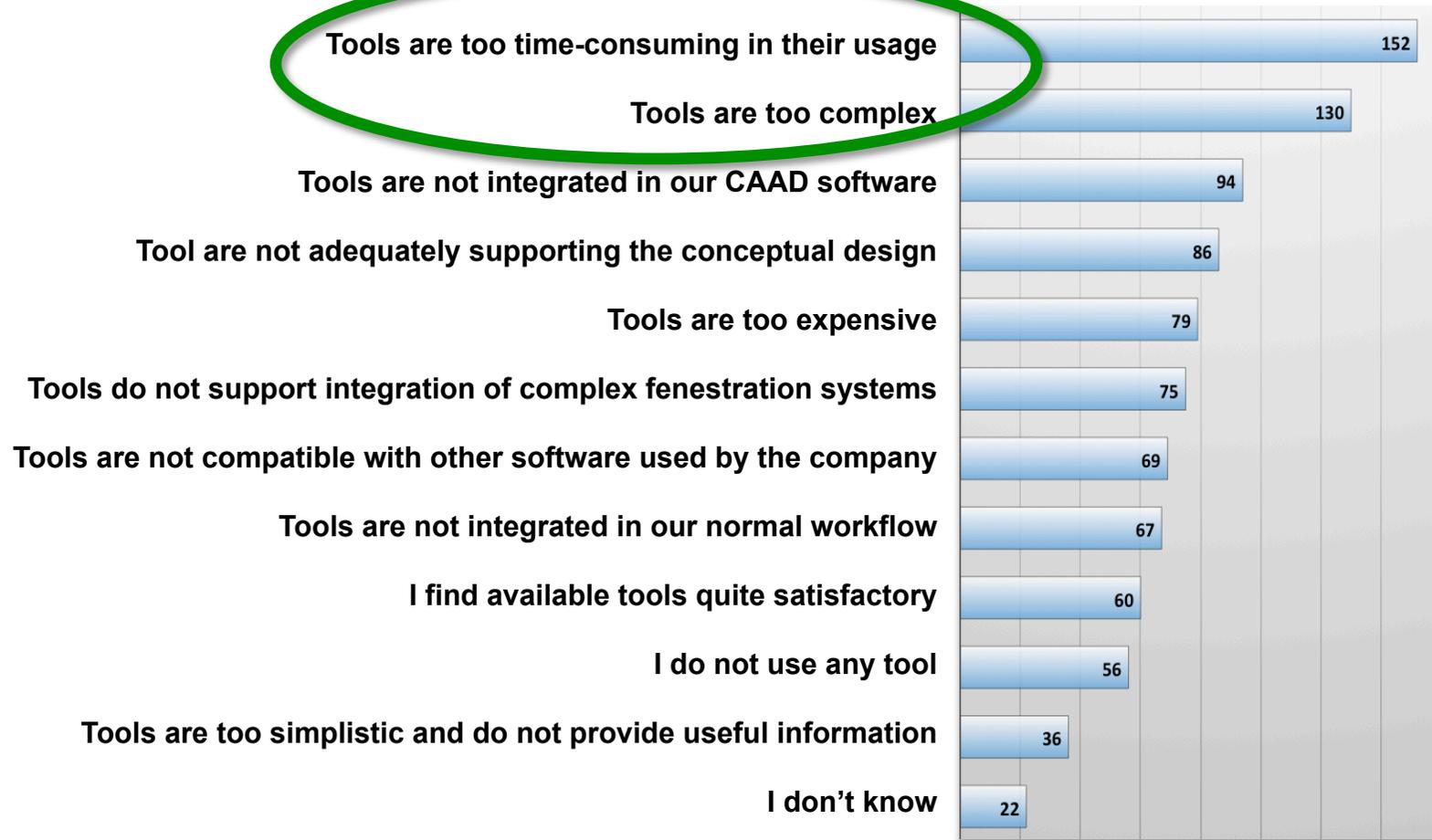
**Q134a: Simulation tools**



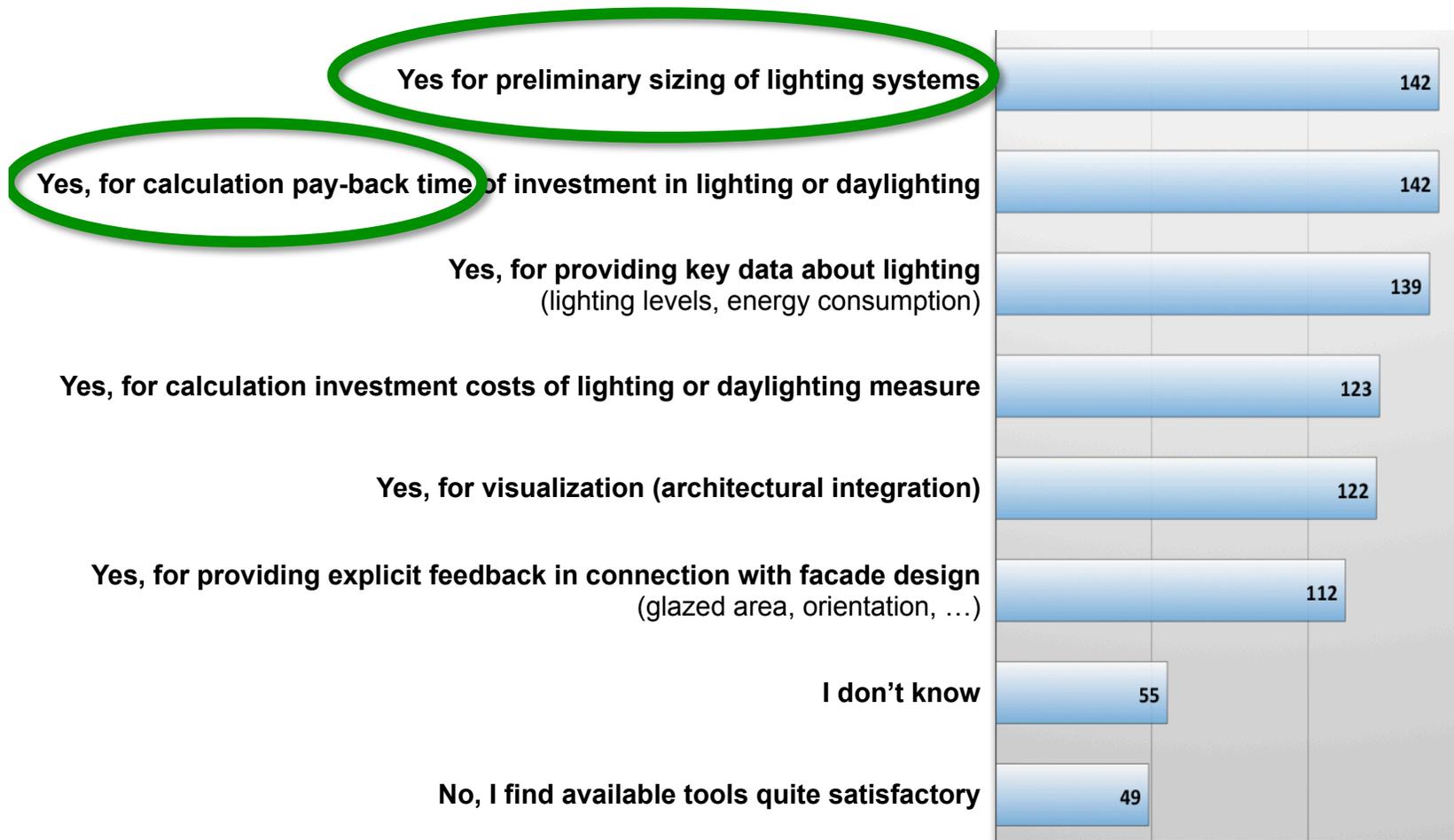
**Q14: Please list the up to 5 factors that most influence your choice of software**



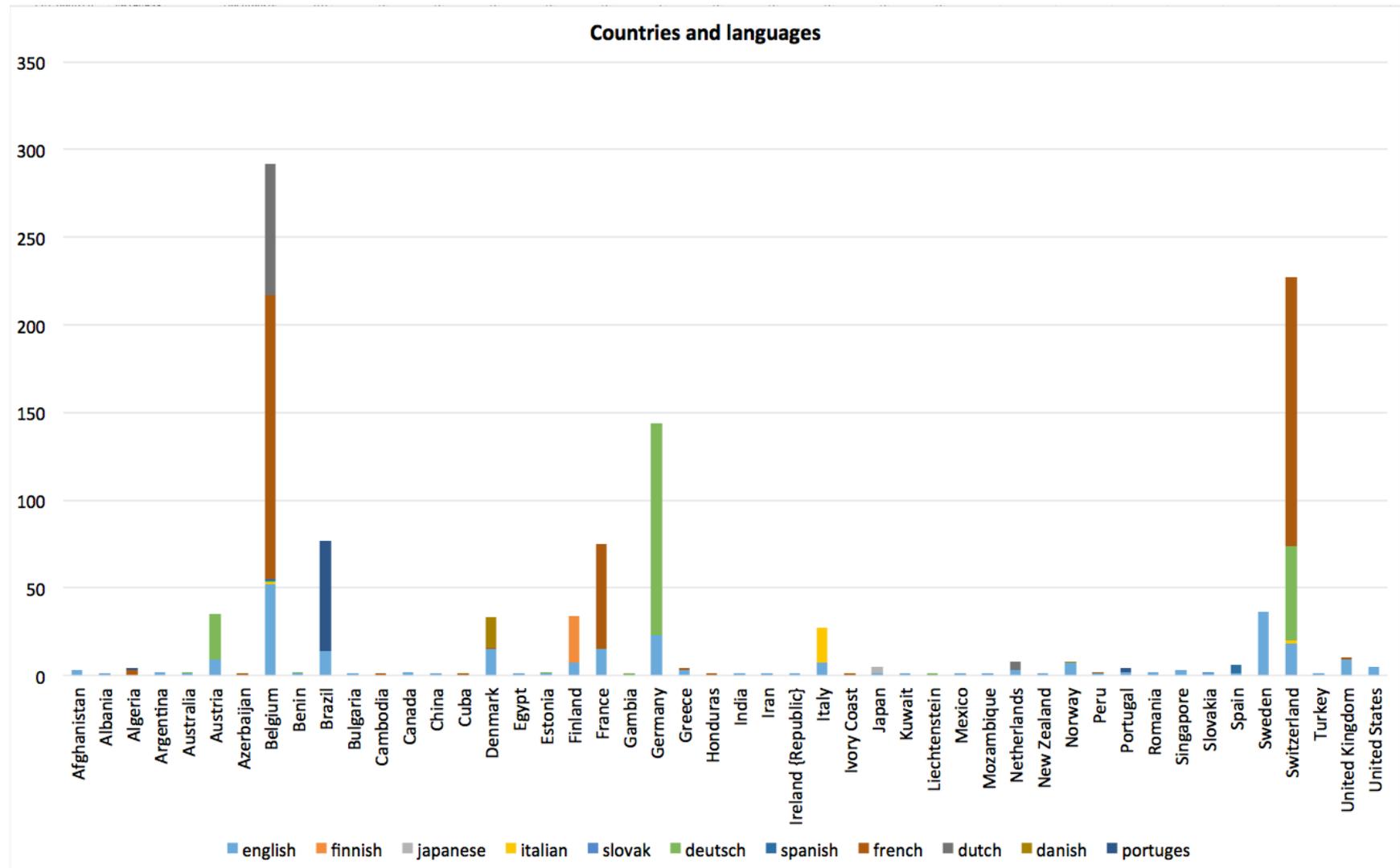
**Q15: Among the following list, please select the up to 5 most important barriers you identified when applying lighting or daylighting design as part of the retrofit process?**



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



## Completion of the questionnaire : Results



*Completion of the questionnaire*

# *Final result*

*Available on a website*

*Answers per country = not statistically significant*

*Global result*