



Products, Materials and Processes Survey Results

Education Products Development team

June 2018

About the survey

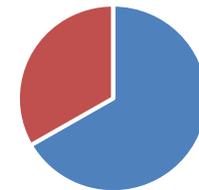


The survey was sent to approx. 300 people who had downloaded the database in the last 2 years. These people are all current customers of CES EduPack.

63 people responded.

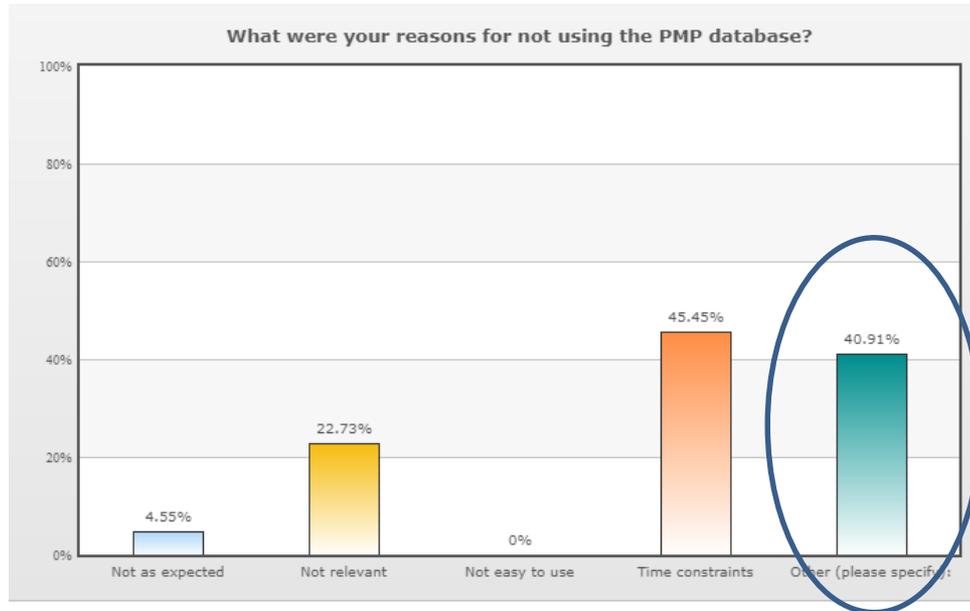
Of those people 2/3 42 people had used the database in their teaching.

% of survey respondents using the database in teaching



■ Used ■ Not used

Those who didn't use the database yet



21 respondents hadn't used it yet.
9 of which would like to use it next year.

9 Other:

- 5 – Preparing for next year
- 3 – Want more examples of how to use

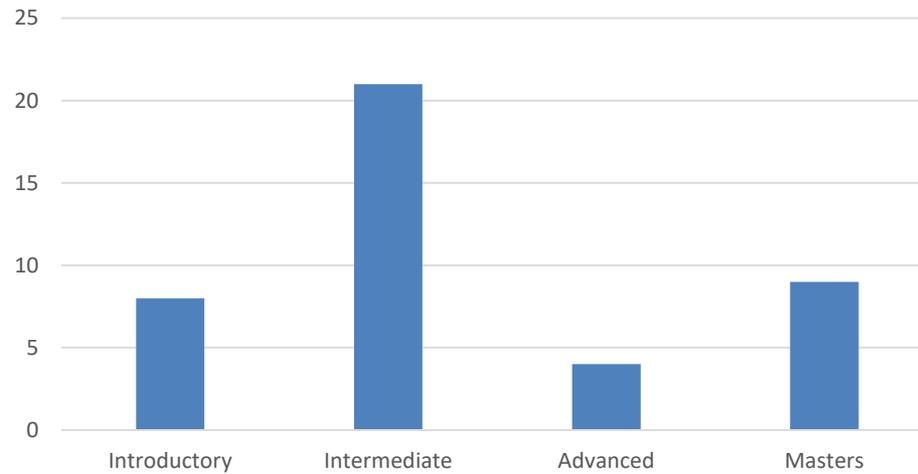
To encourage these people to use it we can:
Add newer products, and give examples of how to use it.

“Increasing the range of products, particularly newer products, would make it easier to work with as students can relate to products they can touch.”

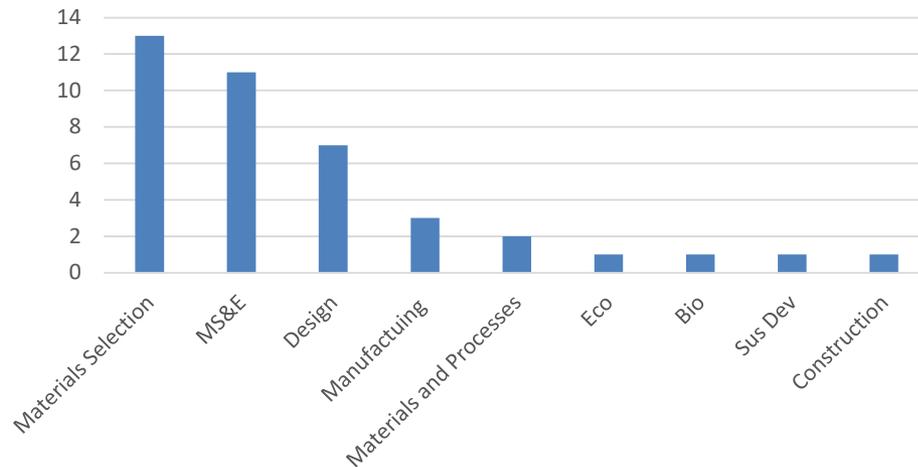
Where was the database used?



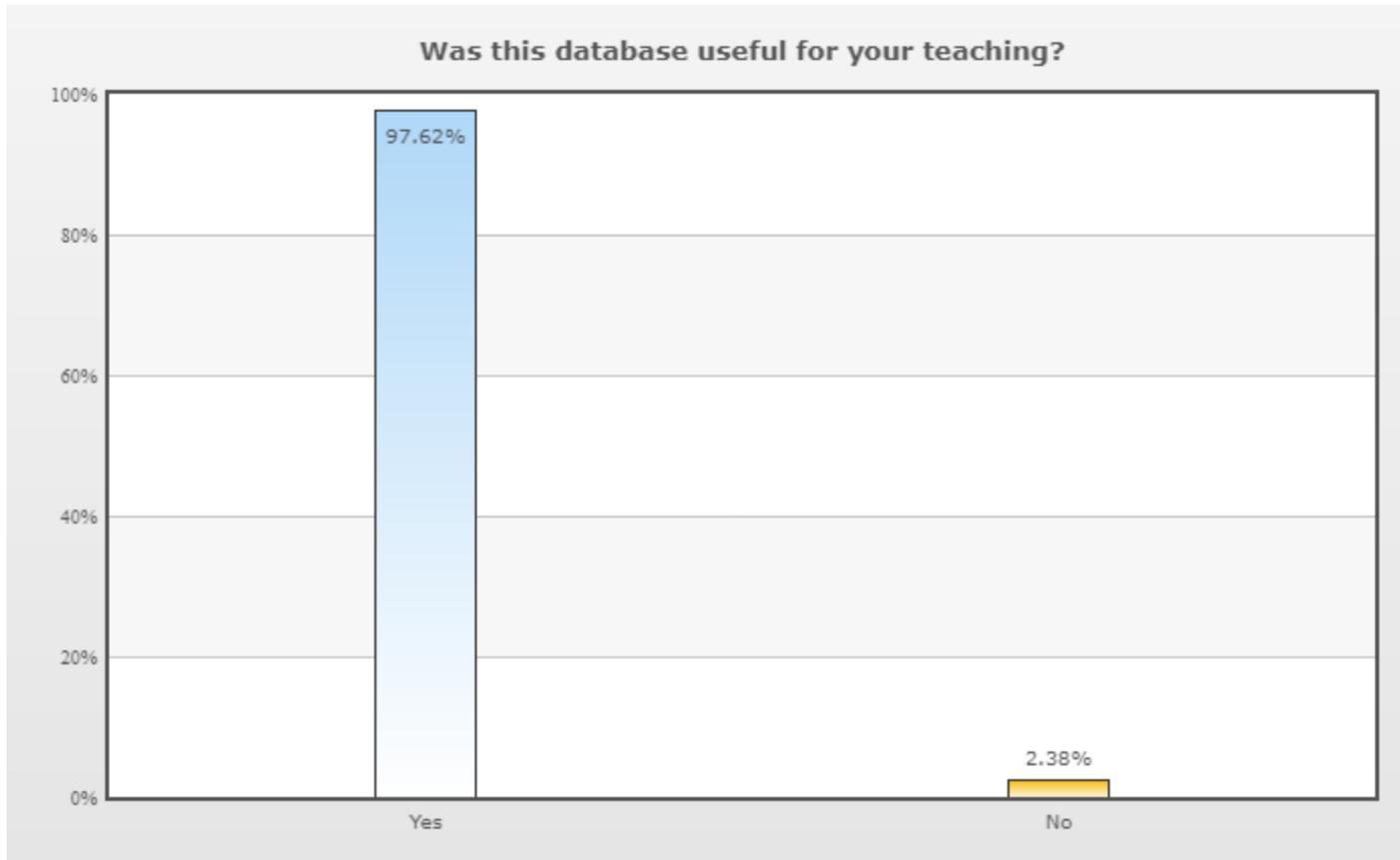
Where used? Course level



Where used? Course title



Was the database useful for your teaching?



41 respondents

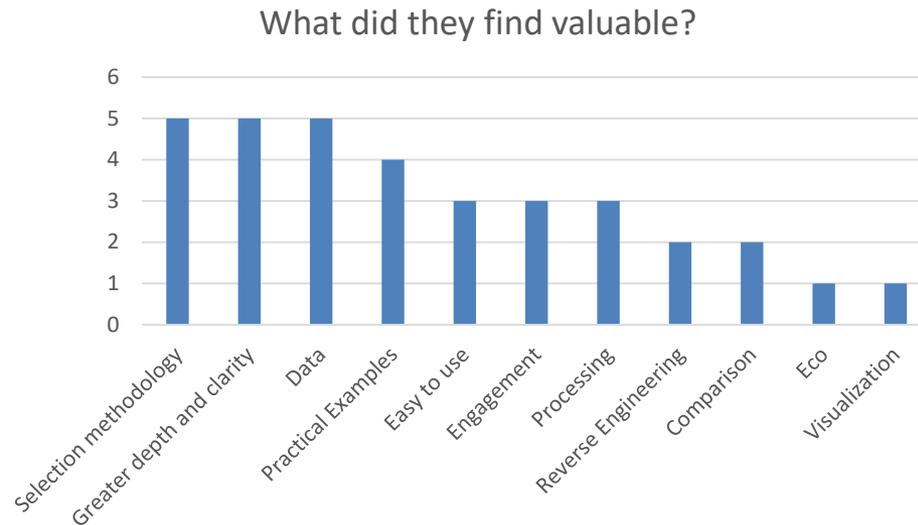
How was the database useful?



It was used in both class assignments and project work.

The educators valued the ease of access to reliable data, and the ability to compare materials and select systematically.

More specific to PMP, they valued being able to help the students get a deeper understanding of the connections between materials, processing and design, and thought that the practical examples of products were engaging and inspirational. Some people used it for reverse engineering projects.



Comments



"Gets design students interested in materials and manufacturing."

"Allows the students to see materials in their use context."

"Quick and easy to match a lot of materials."

"Being comprehensive, it stays clear, understandable, making things simple... all a professor sometimes lacks... ;)"

"It is a very important and useful tool in the classes - in the selection of the most suitable material for a given project, and helps students to understand which are the main constraints during its production. It is also of great use in the future activities of young graduates."

"It's useful for explaining what products are made by that manufacturing process."

"The database was able to provide key information that students need to identify in the material selection process. Comparison of different properties was conducted with relative ease thanks to the way the database has been formulated."

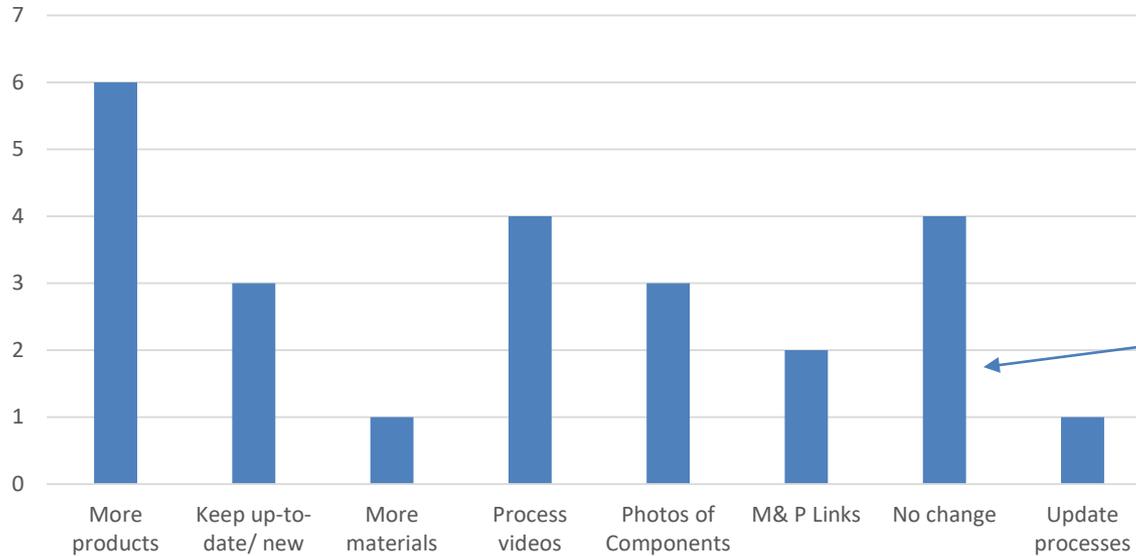
"Understand how different materials can be processed and related and how processing is related with properties."

"It allowed the students to work backwards, i.e. to find out what materials would suit an already existing production infrastructure."

What can we improve?



What can we improve?



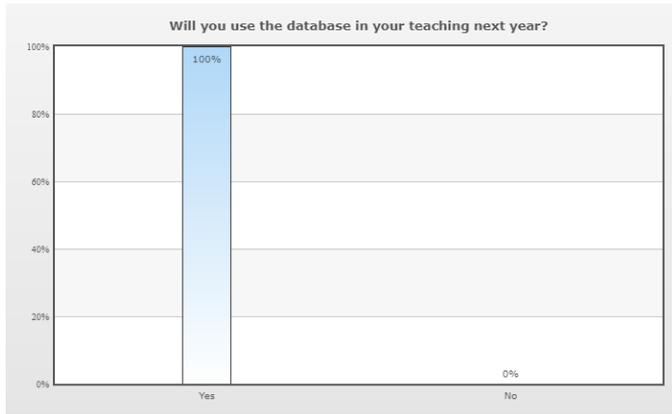
This is not just an empty field – but people actively saying that it's good how it is!



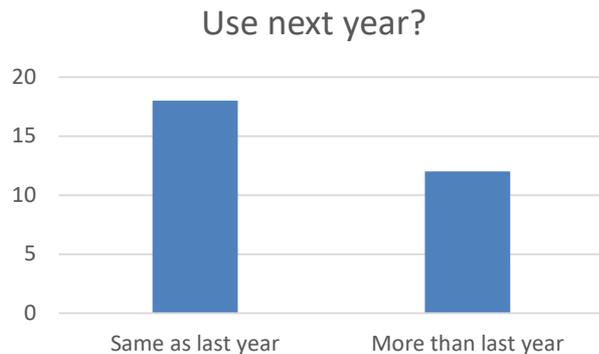
This year's users – what next year?



100% - 42 people will use it again next year.



How?



"The same and adding an exercise by the students to develop specific application cases."

"I use it in the cooperative works solving real cases with the students."

"In similar applications and in a more specific one with the tool 'Eco Audit' (in a PhD thesis orientation)."

"Same and in a new course Mat E 474 Performance of Materials to be used in conjunction with case studies."

"I will do an intro lecture and require students to look up properties for specific material to complement their reading. For example, looking up the various alloys of steel and effect of temperature, Crystal structure of inorganic materials, etc."