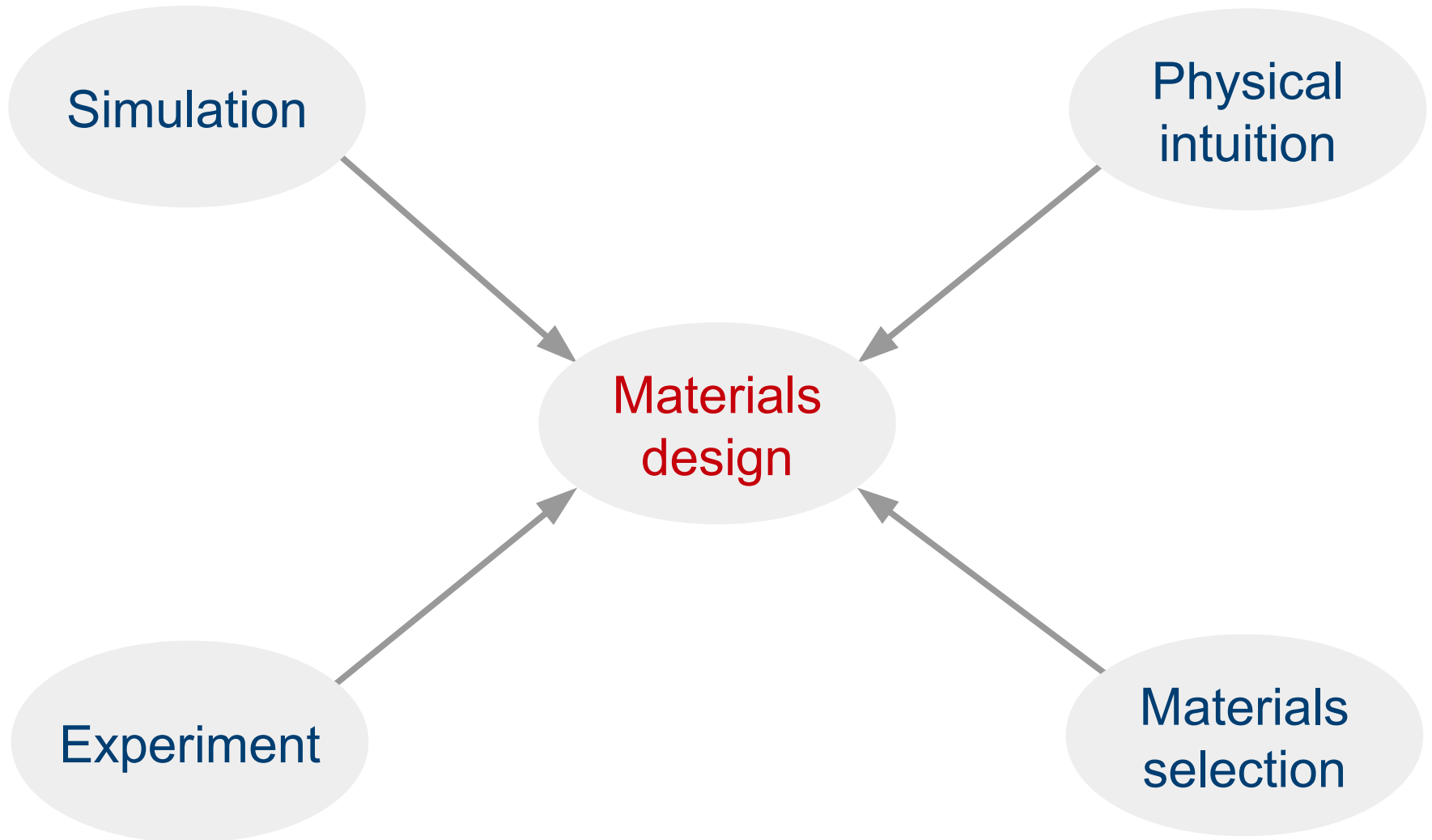


Research plans over the next five years

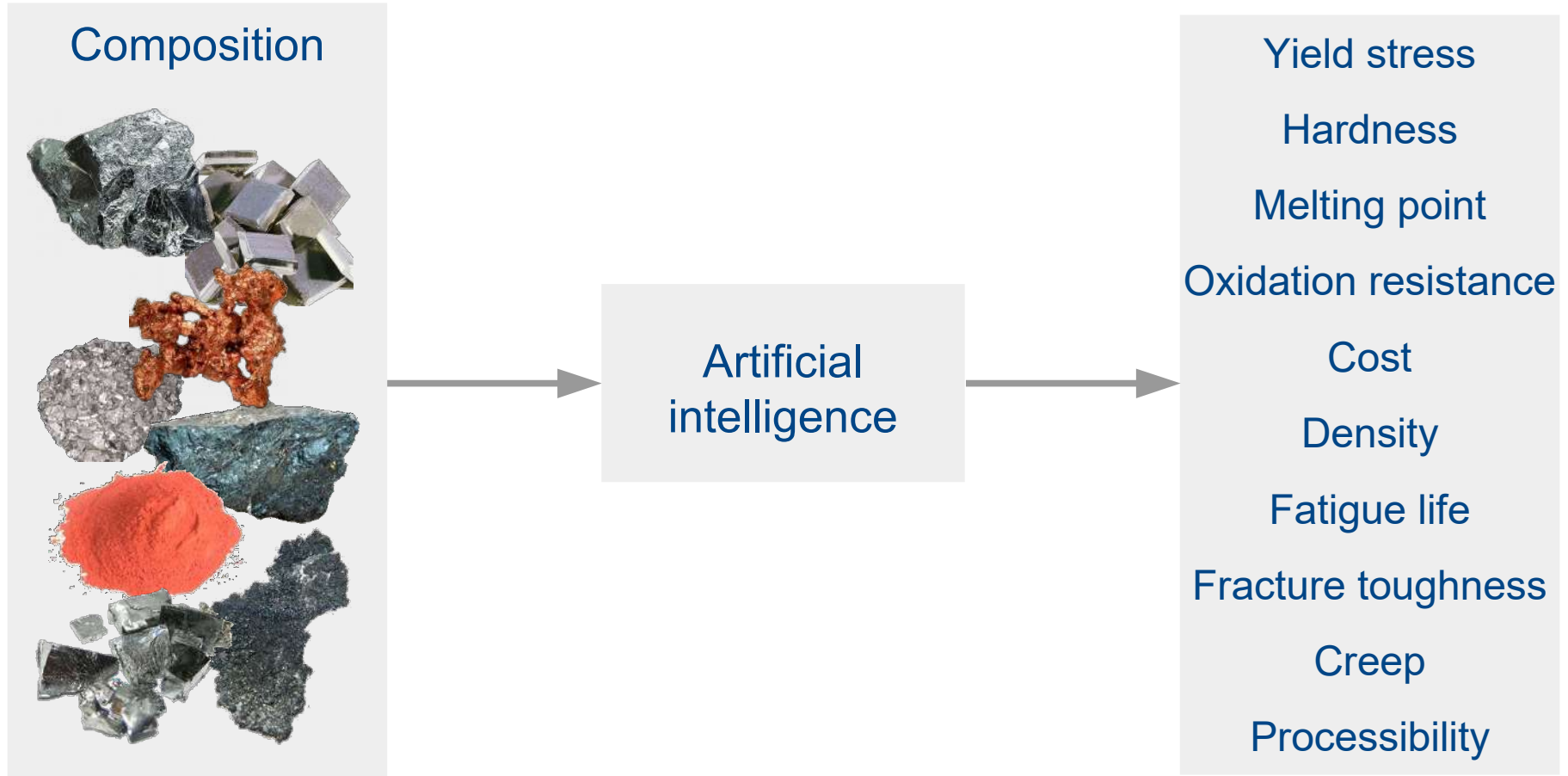
Gareth Conduit

TCM Group, Department of Physics

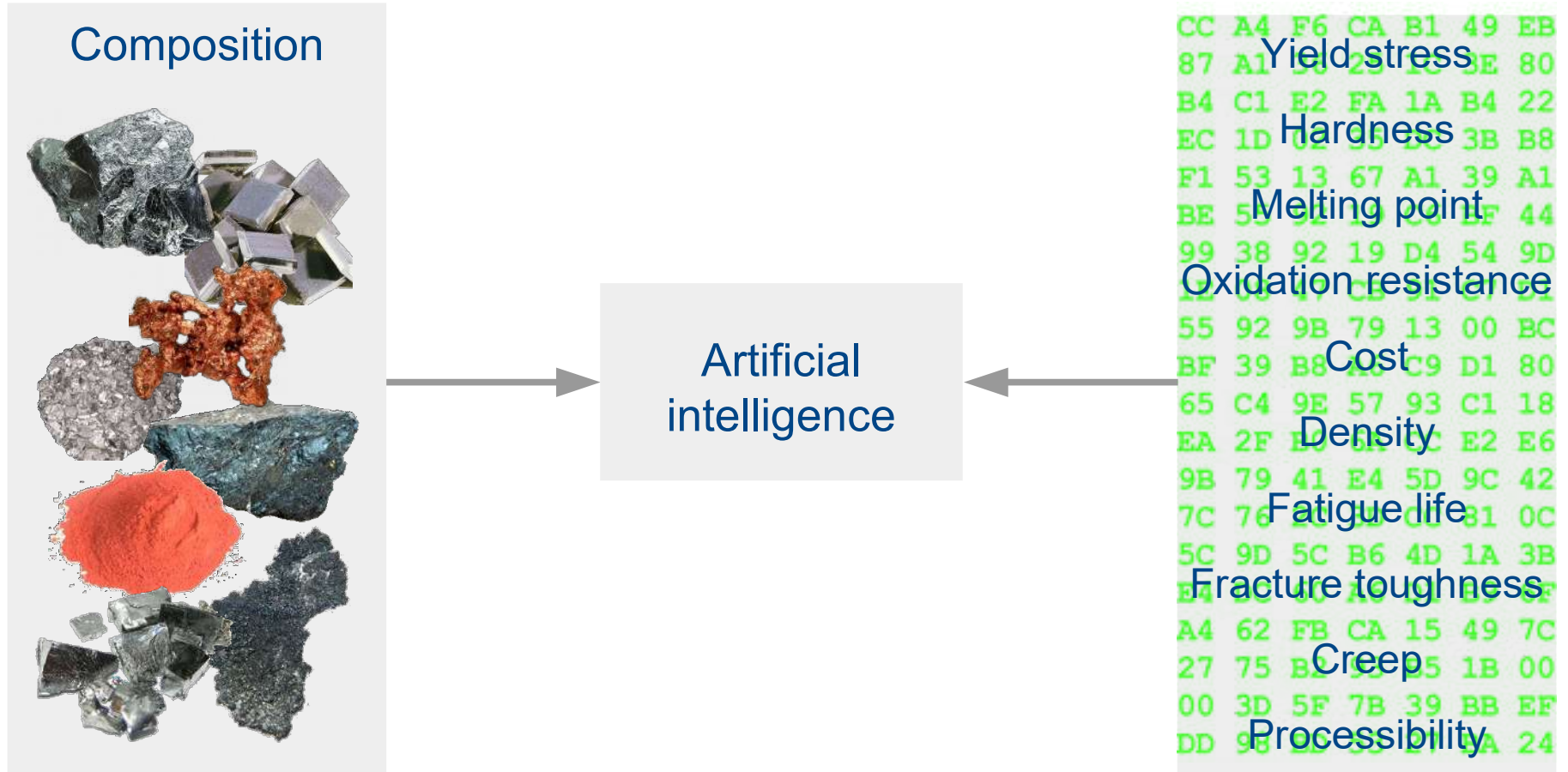
Approaches to materials design



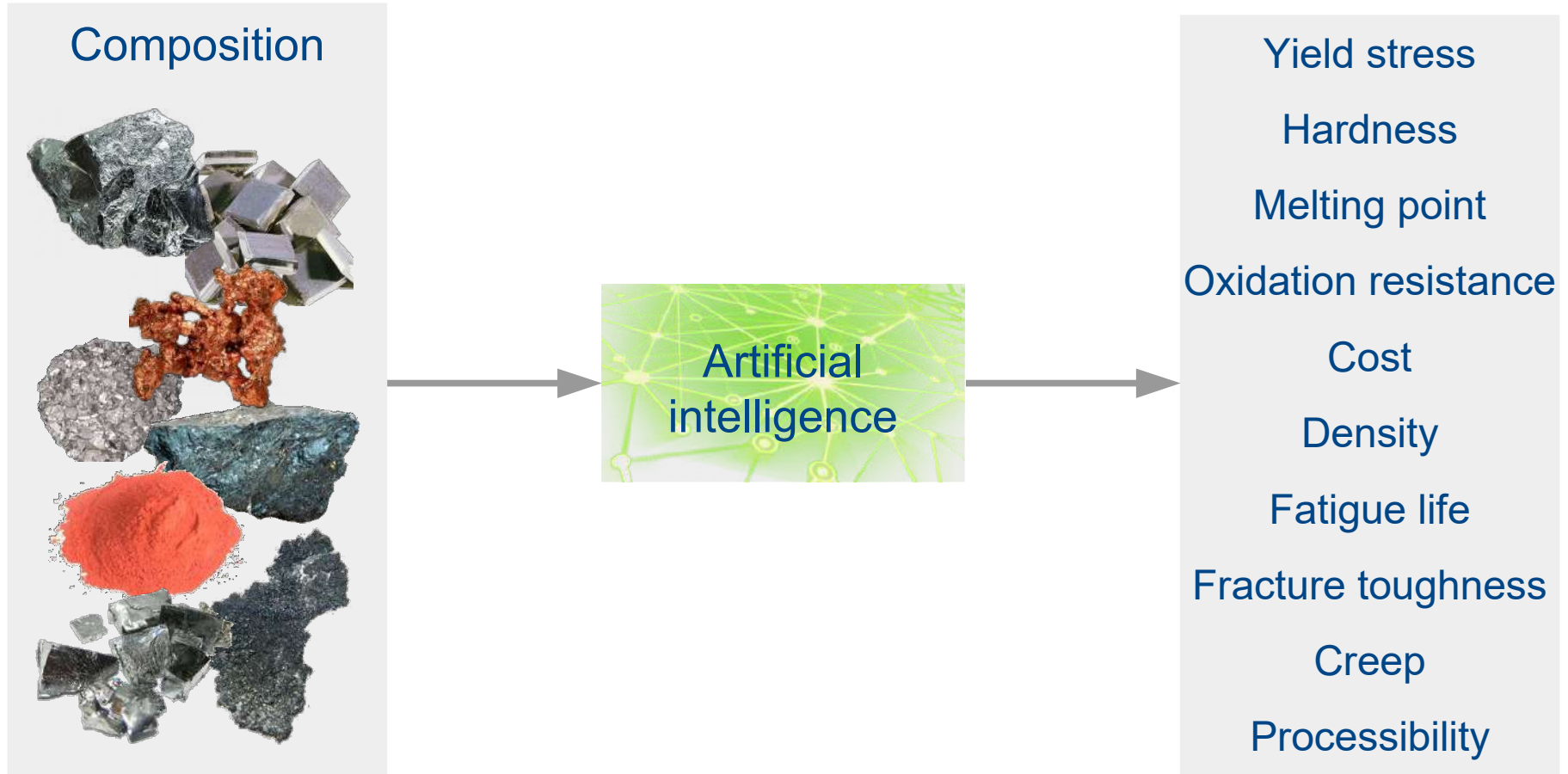
Artificial intelligence



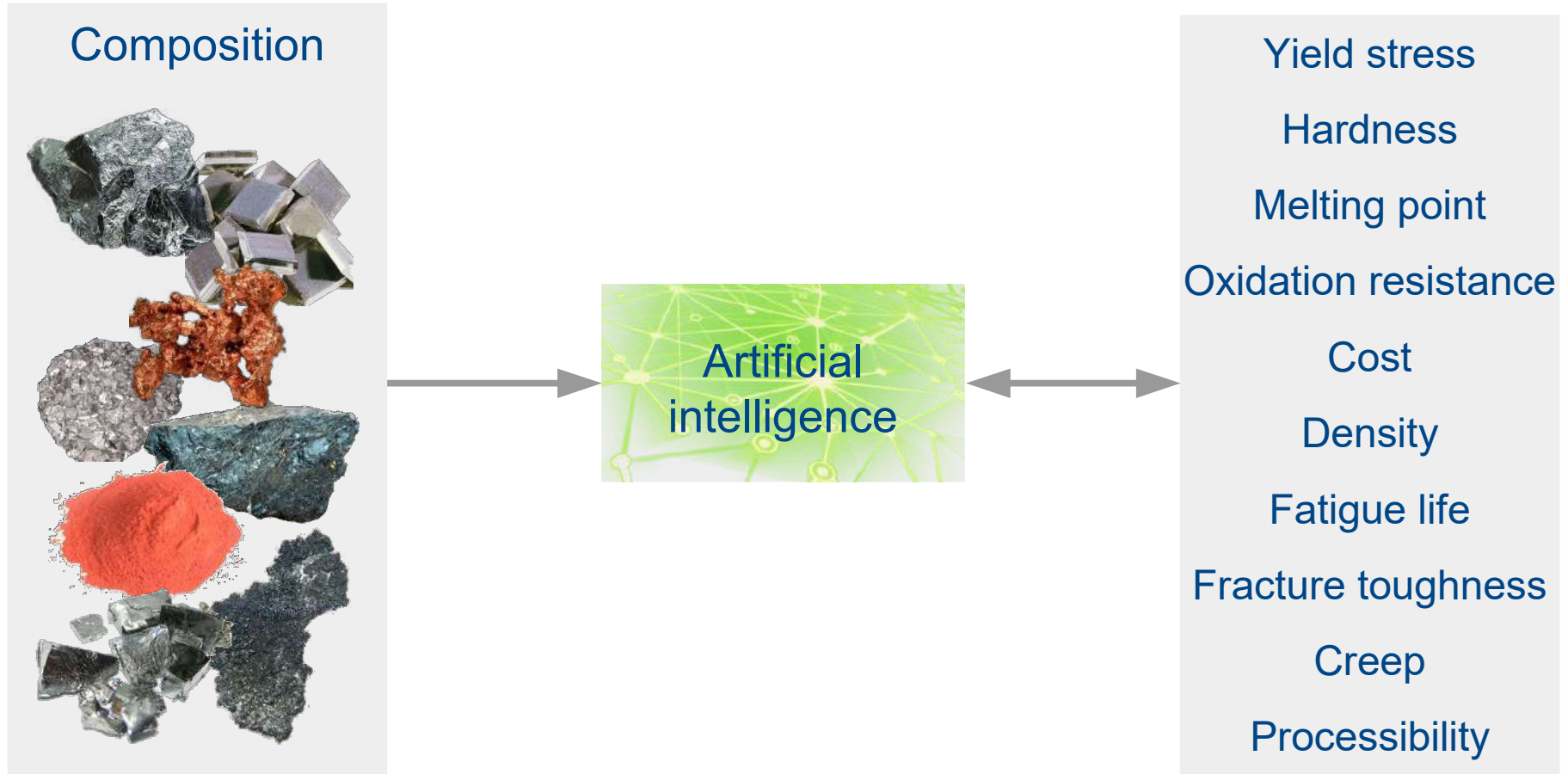
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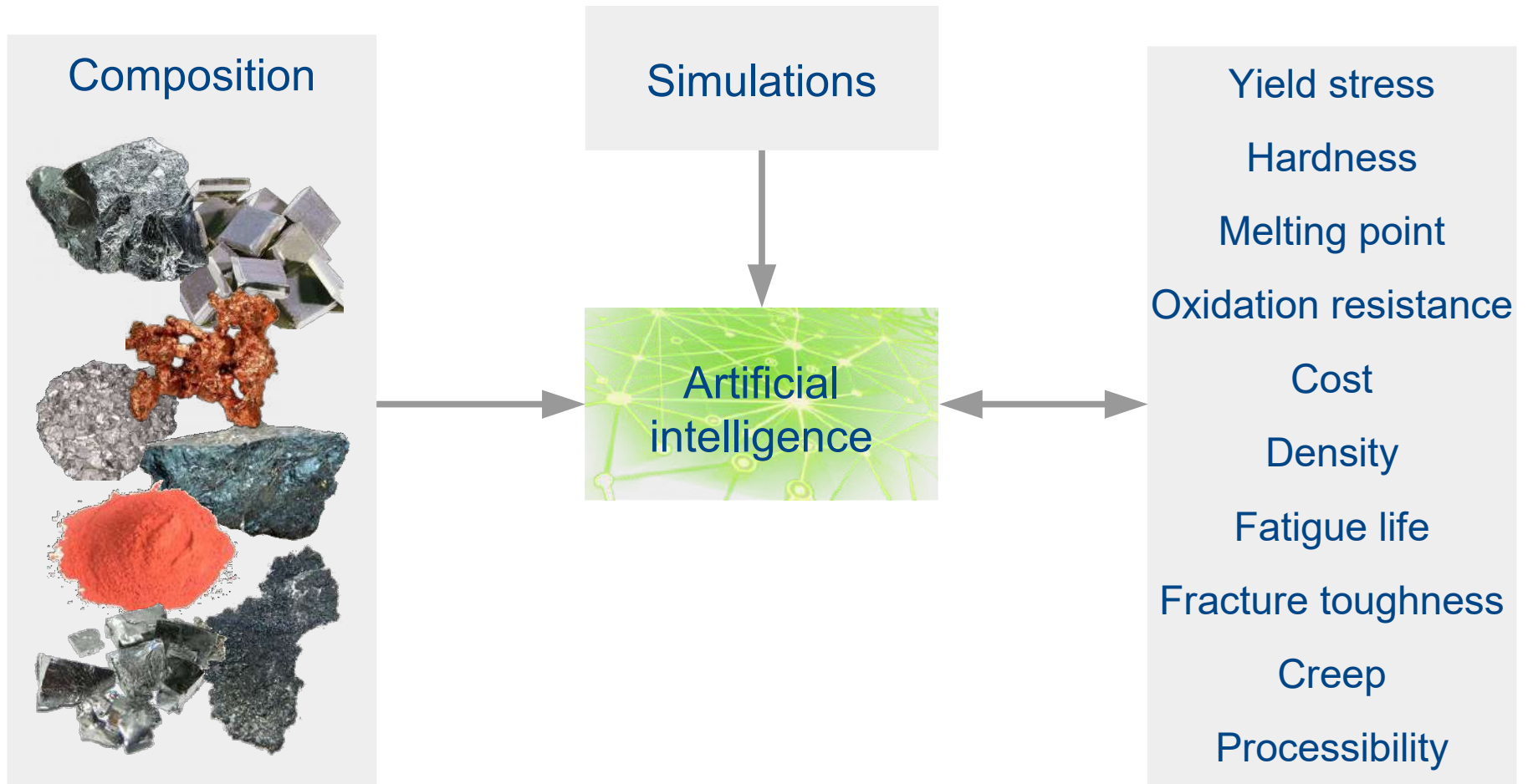
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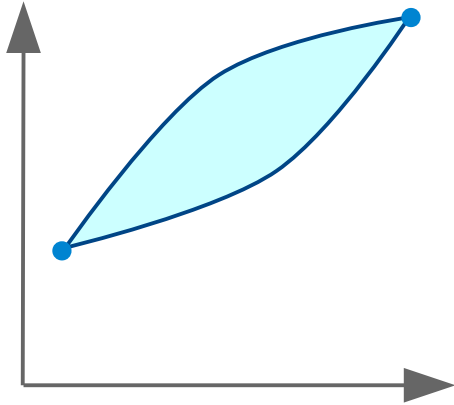
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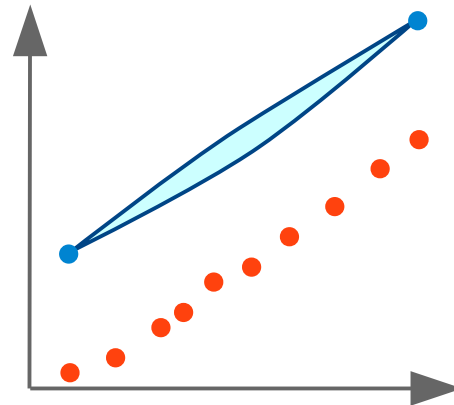
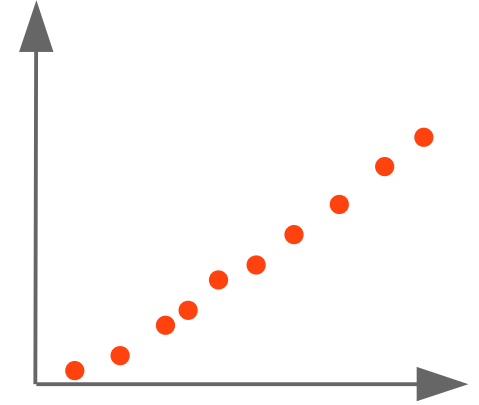
Artificial intelligence



Merging simulation and experiment



Combine



Exploitation plan

Individual
materials



```
graph TD; A[Individual materials] --> B[Database analysis];
```

A vertical flowchart with two rectangular boxes. The top box is light gray and contains the text 'Individual materials'. A black arrow points downwards from the bottom center of this box to the top center of the second box. The second box is also light gray and contains the text 'Database analysis'.

Database
analysis

Summary

Used artificial intelligence in materials discovery

Discovered five new alloys, experimentally verified, now real-world testing

Merge simulations and experiments into single design tool