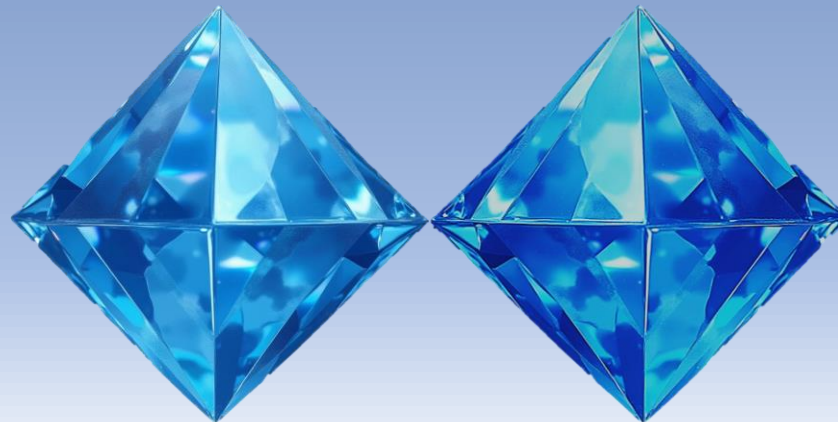
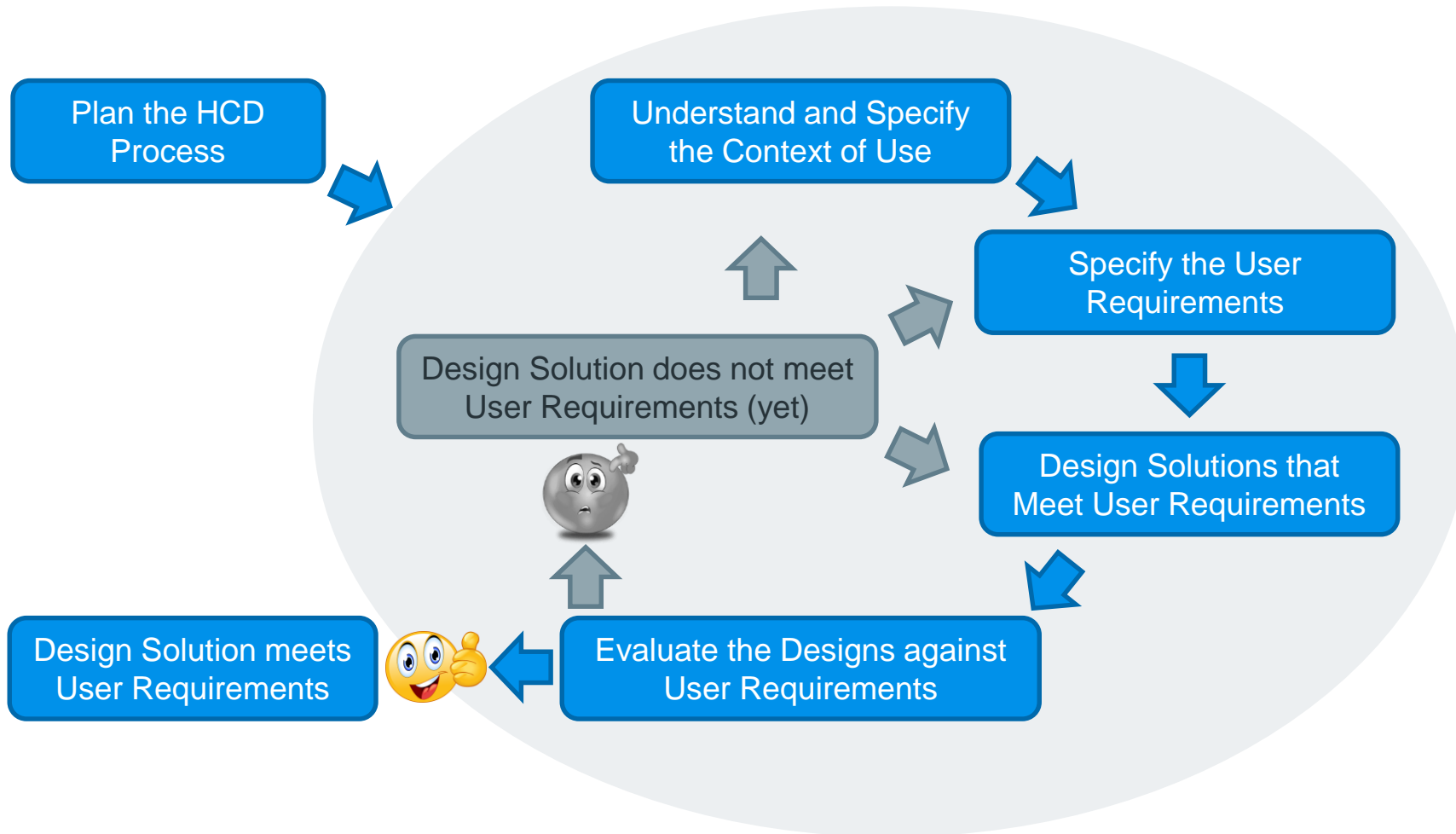


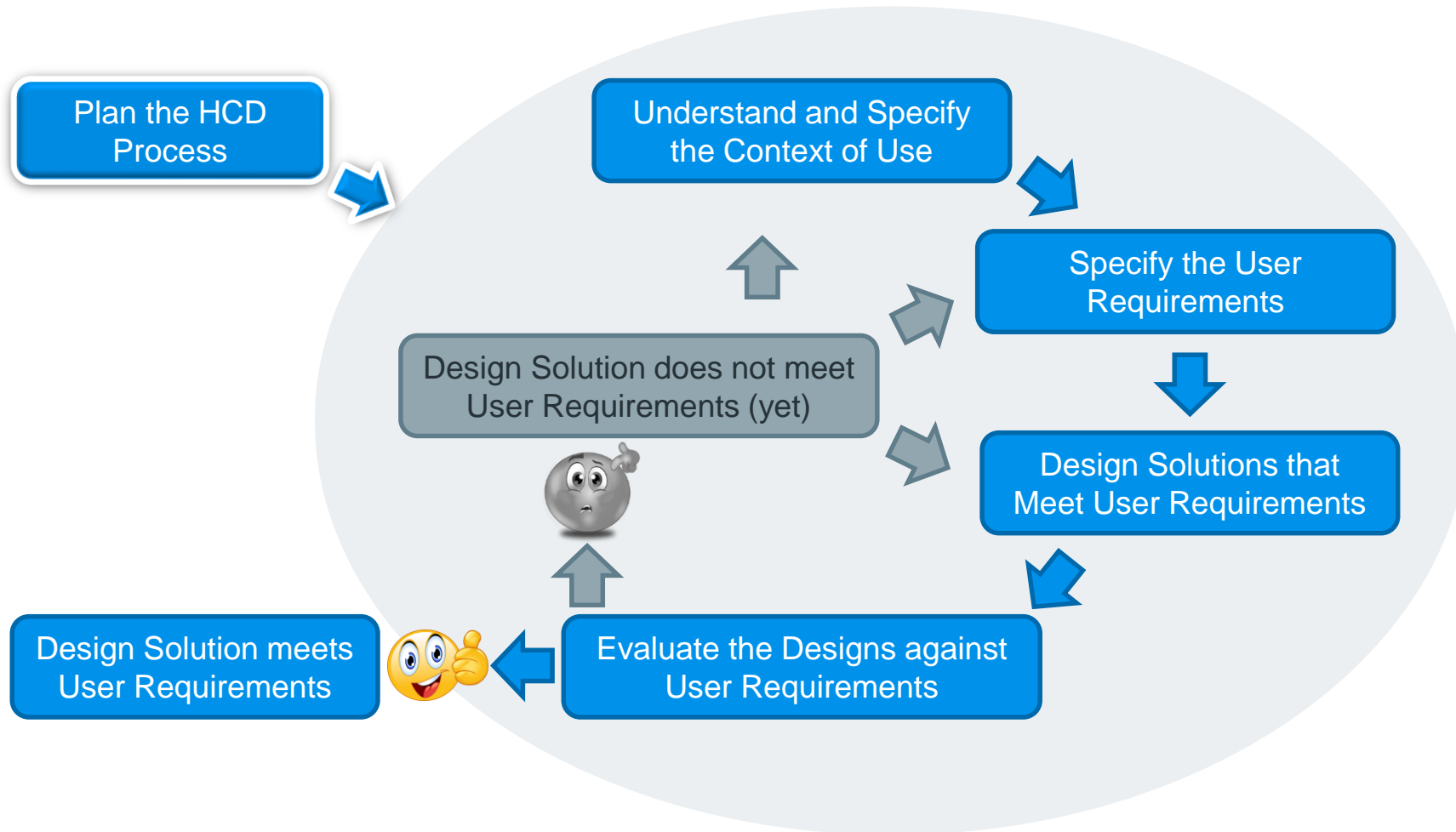
Building Applications with Purpose: Bridging Human-Centered Design and Human-Centered Artificial Intelligence in Legal Tech with the Double Diamond



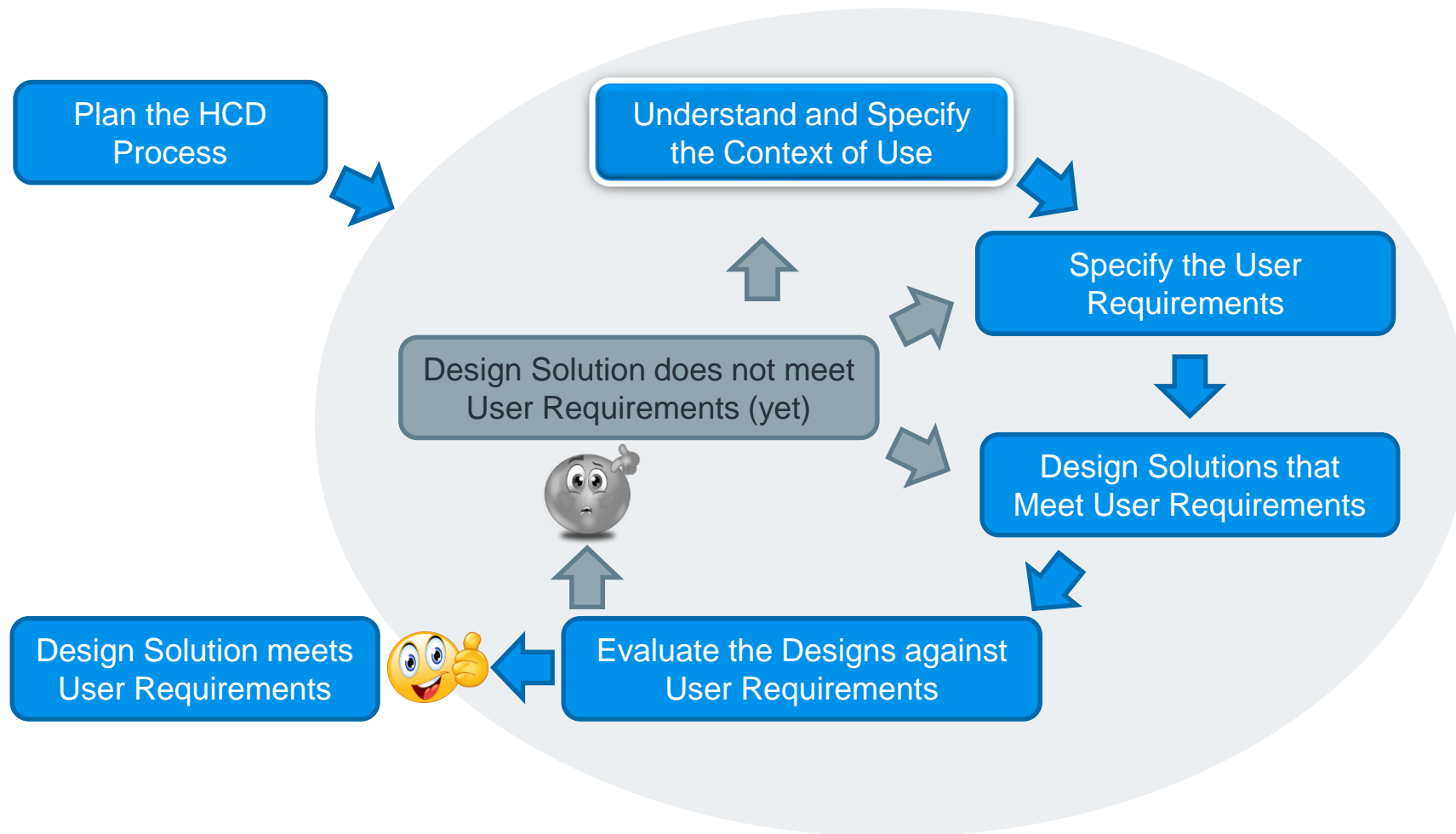
Human-Centered Design



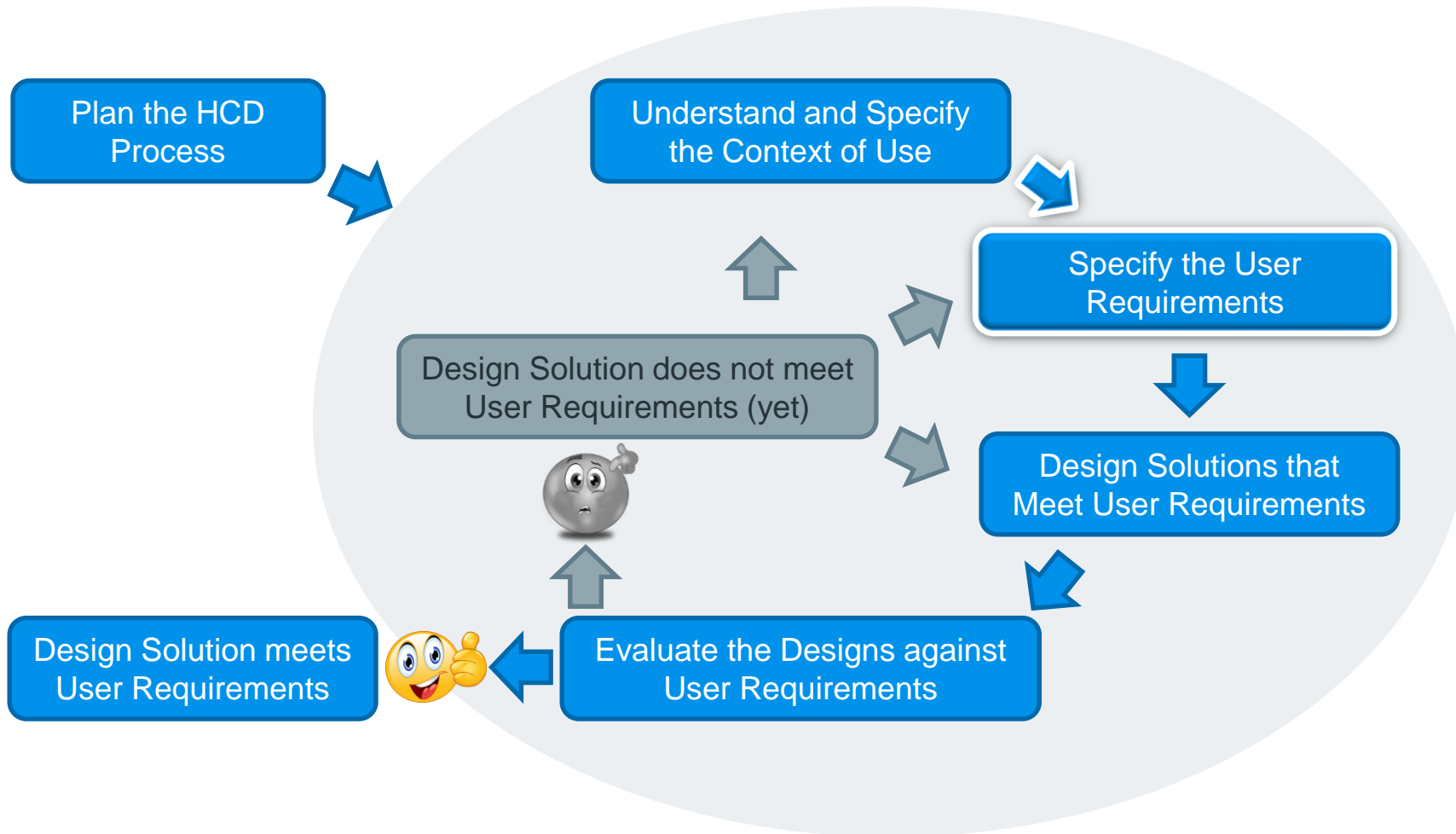
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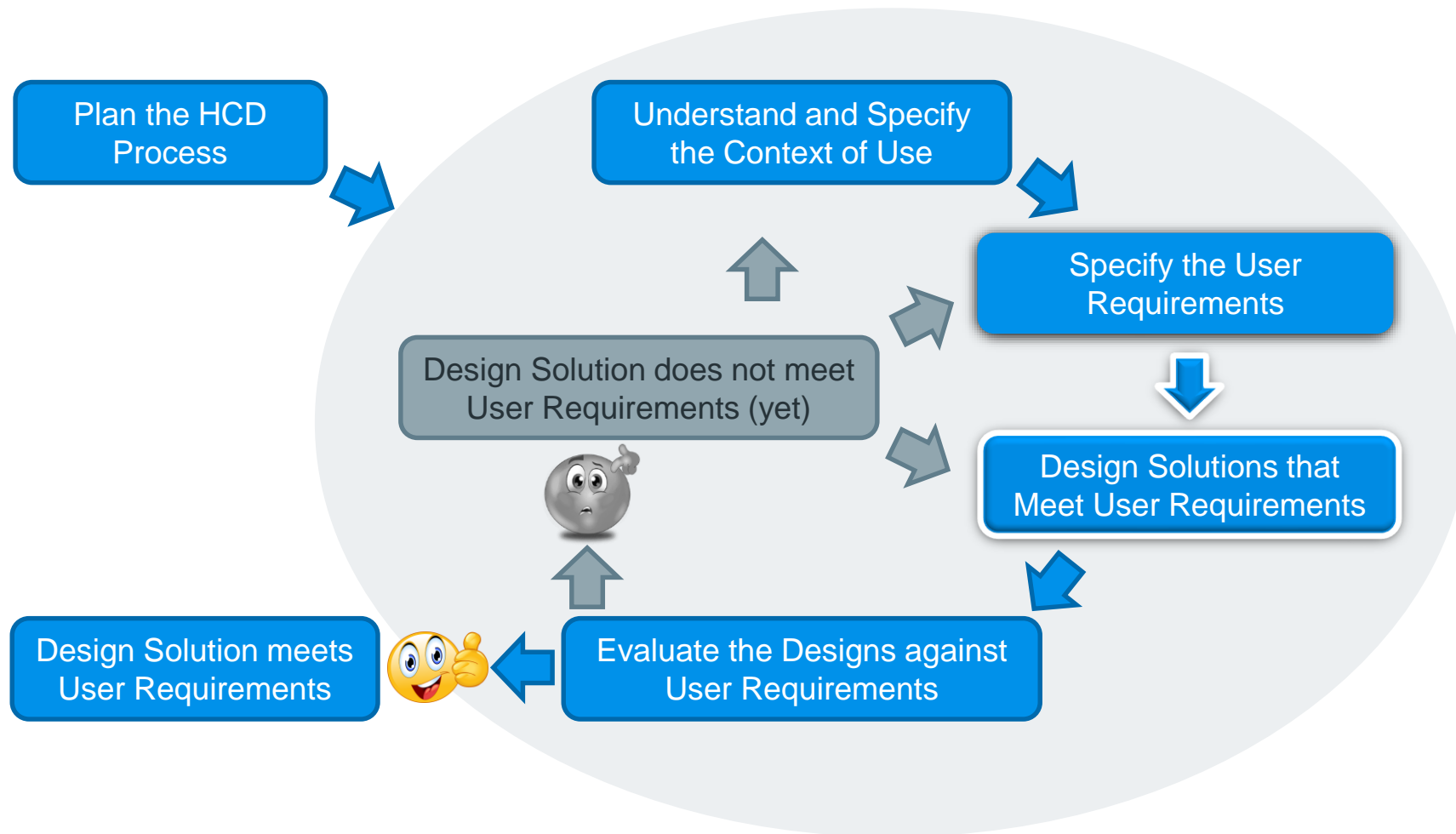
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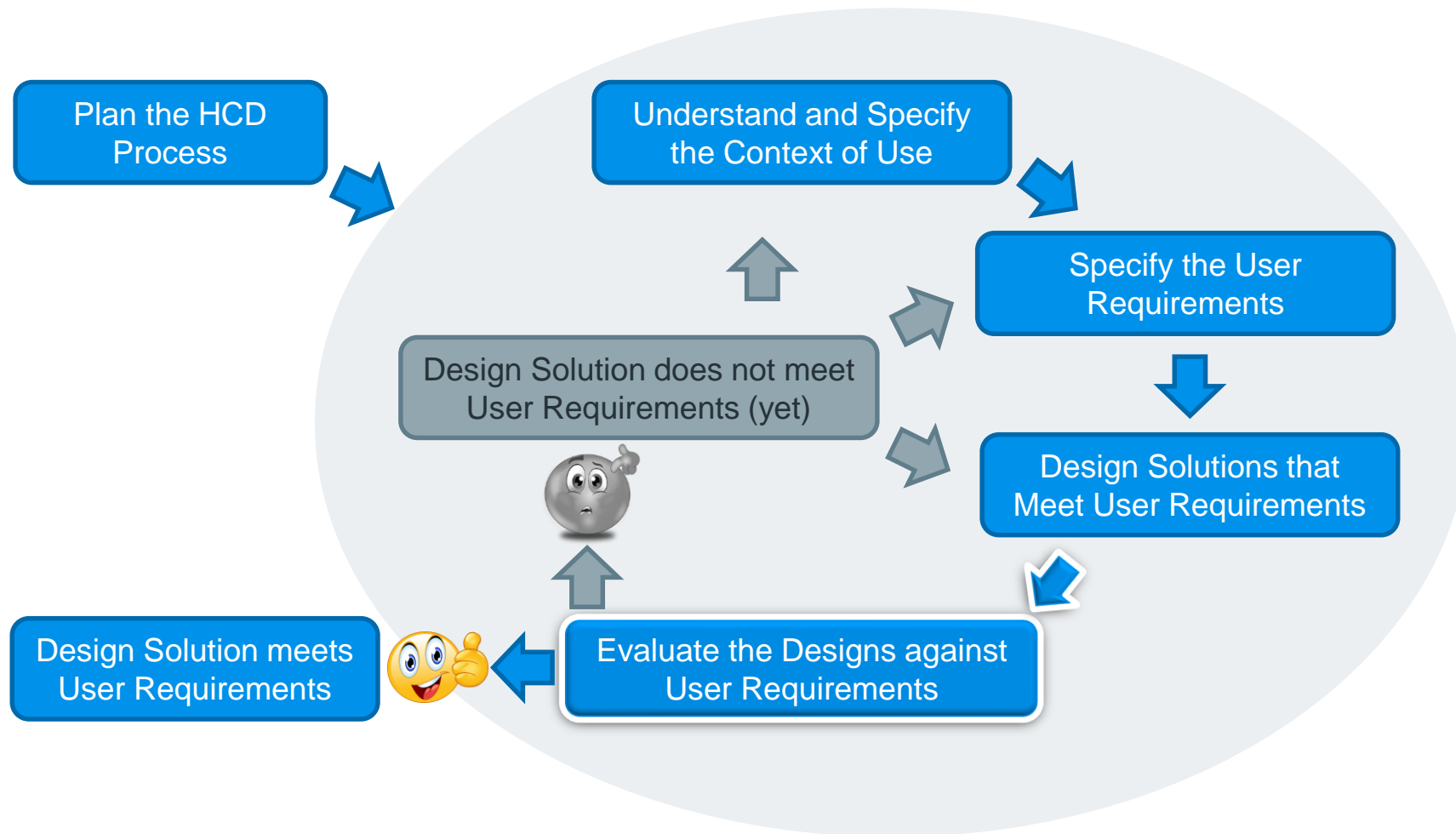
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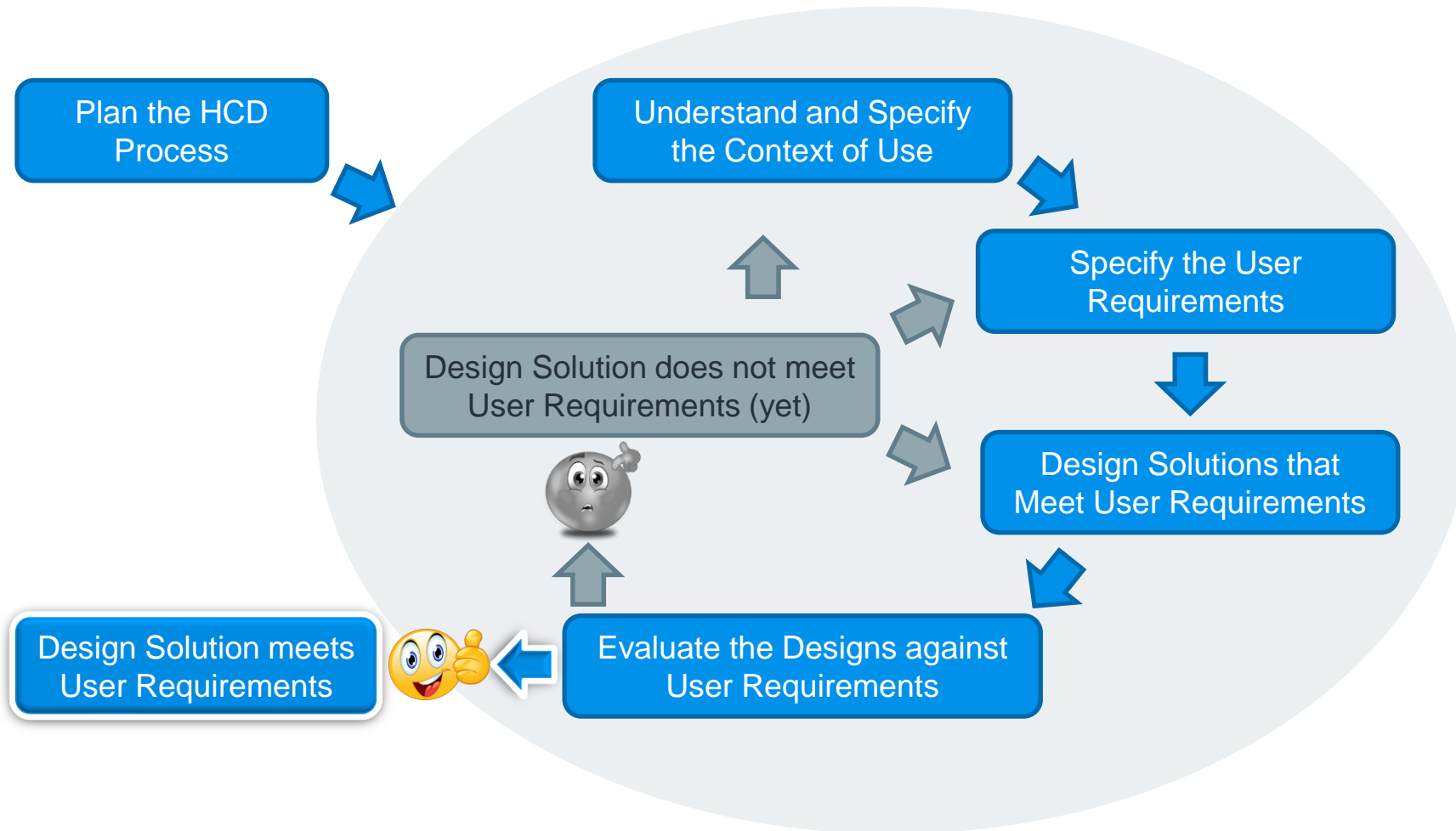
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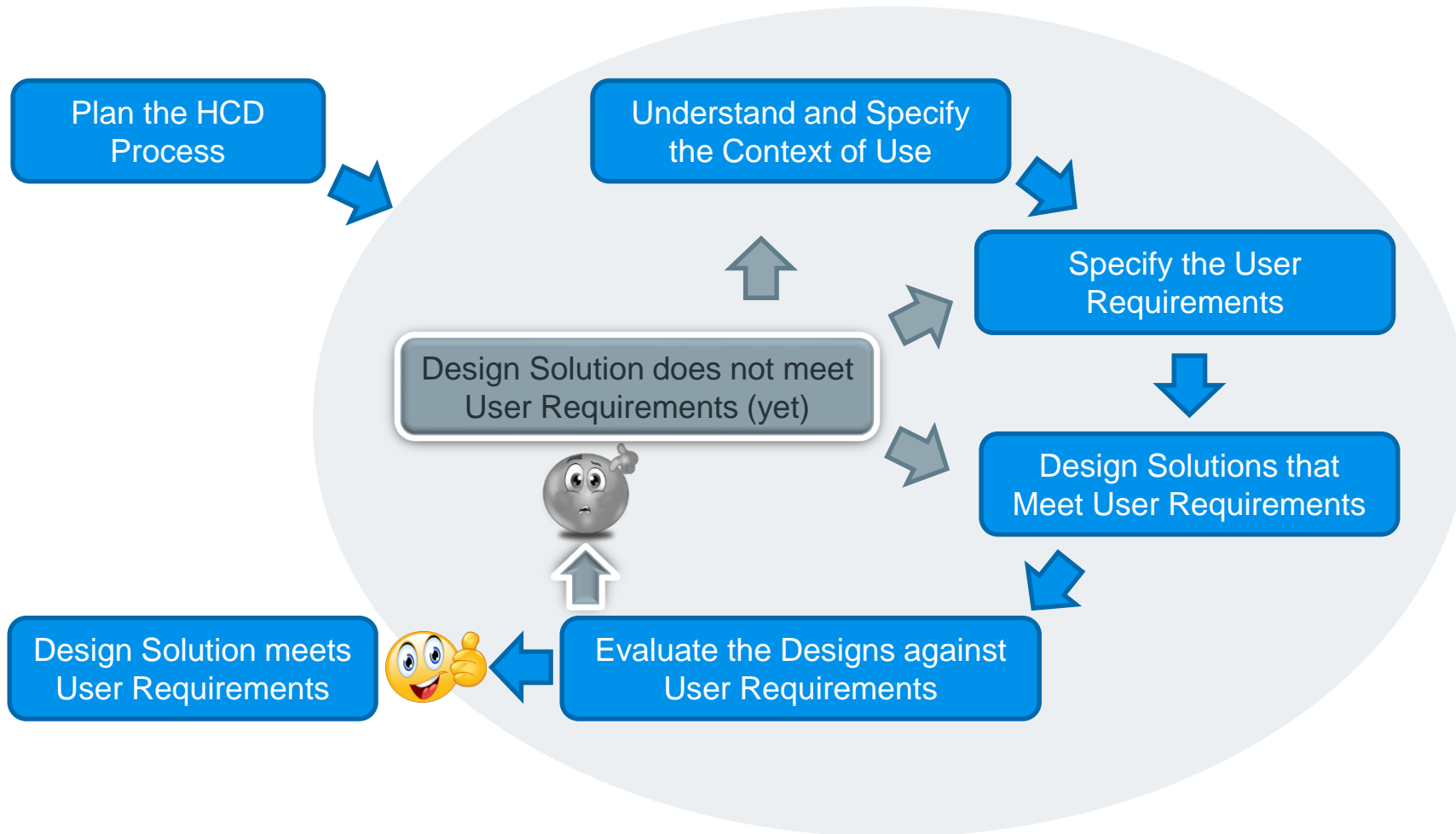
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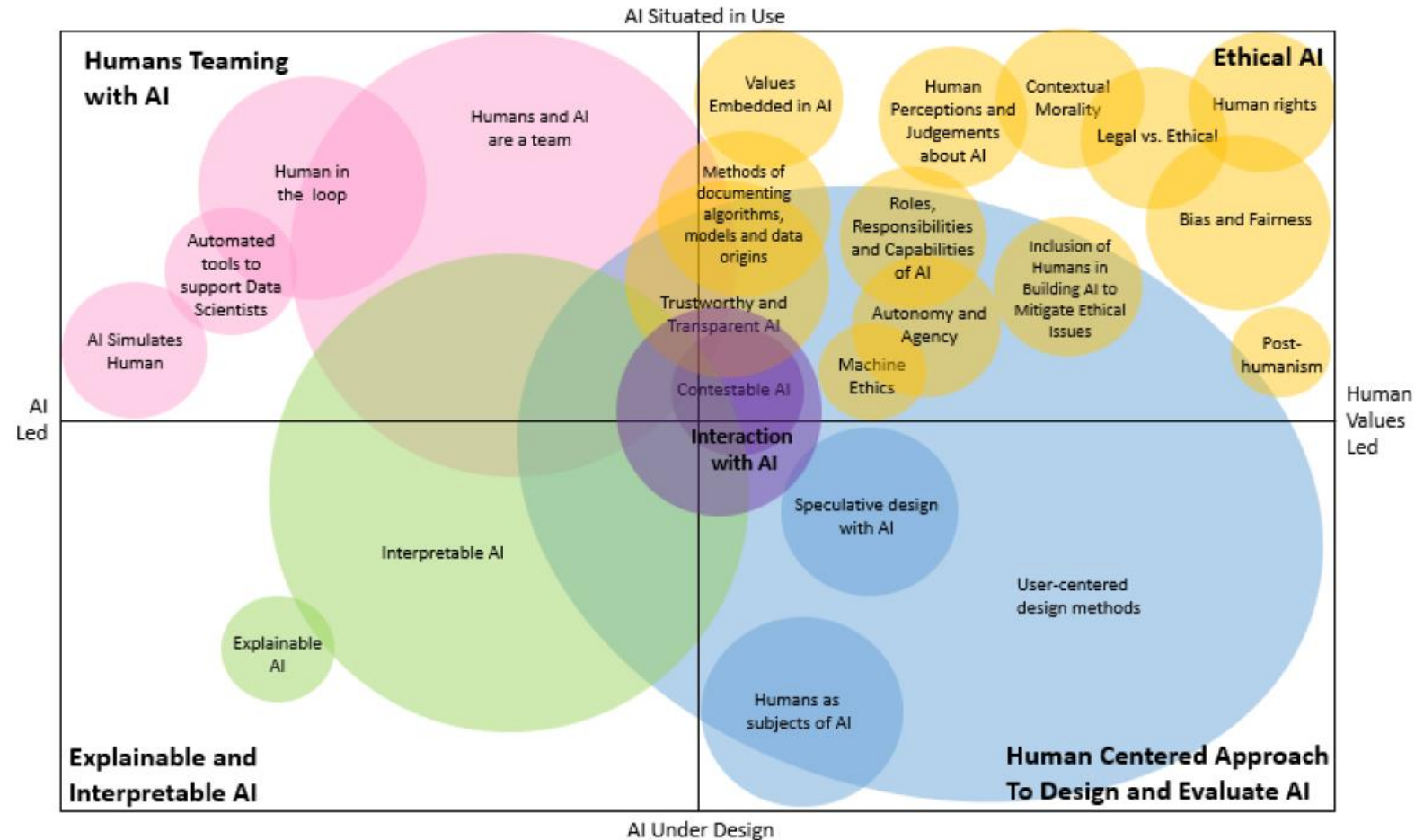
Human-Centered Design



Human-Centered Design



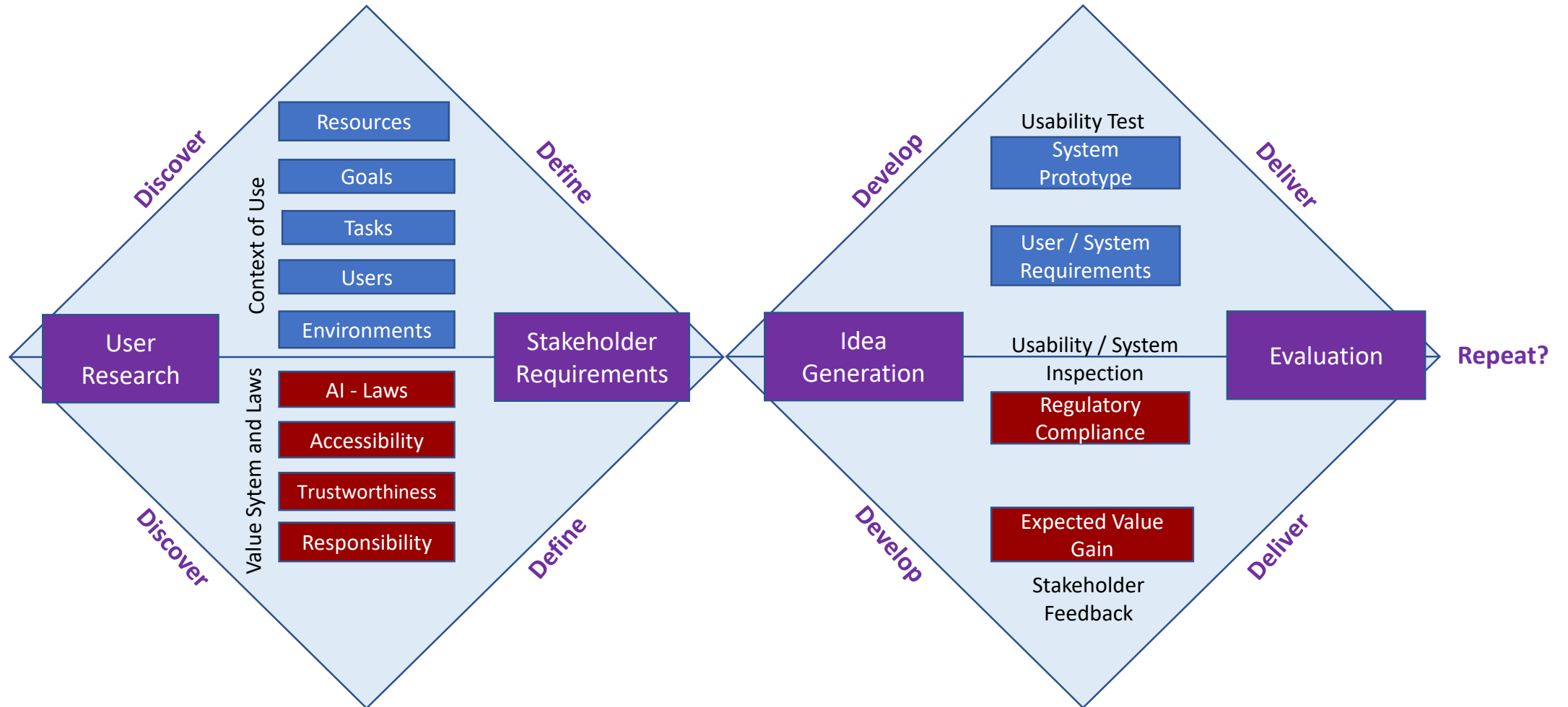
Human-Centered Artificial Intelligence



Position:

We need to use ideas from both fields
to build usable and relevant AI systems
for users in the legal domain

Double Diamond for HCAI and HCD in Legal Tech





Filters

Clear Filters

Search Examples: for case name 'Nassauskiesung', case number 'BVerfGE 58 300', article name 'Erbrecht' and article number 'Art. 14 GG'. Use Filters for Advanced Search.

Recommended Articles

Diskriminierun... Citations In the Text

Art. 3 GG
(1) Alle Menschen sind vor dem Gesetz gleich. (2) Männer und Frauen sind gleichberechtigt. Der Staat fördert die tatsächliche Durchsetzung der...

Recht auf Lebe... Citations In the Text

Art. 2 GG
(1) Jeder hat das Recht auf die freie Entfaltung seiner Persönlichkeit, soweit er nicht die Rechte anderer verletzt und nicht gegen die...

Widerstandsre... Citations In the Text

Art. 20 GG
(1) Die Bundesrepublik Deutschland ist ein demokratischer und sozialer Bundesstaat. (2) Alle Staatsgewalt geht vom Volke aus. Sie wird vom...

Recommended Cases

Verfassungsge... Citations In the Text

BVerfGE 18 85

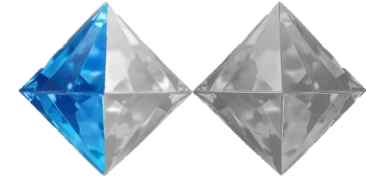
Südweststaat Citations In the Text

BVerfGE 1 14

Apotheken-Ur... Citations In the Text

BVerfGE 7 377

Example: TENJI



DISCOVER

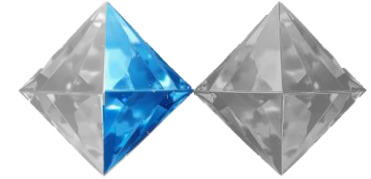
HCAI

- Law researchers valued **explainable** search results to ensure all relevant documents were found.

HCD

- **Usability test of the first prototype:** law students needed access to the original cited norms and cases.
- **Interviews:** German search engines do not rank relevant documents effectively: consider citation count and whether a norm or case has a publicly recognized name.

Example: TENJI



DEFINE

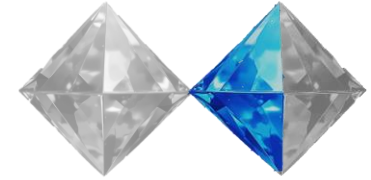
HCAI

- **User Requirement:** *With the system, the user must be able to recognize why a result has been returned by the search engine to ensure all relevant documents have been found.*

HCD

- **User Requirement:** *With the system, the user must be able to recognize the most relevant legal norm on the first search result page.*

Example: TENJI



DESIGN

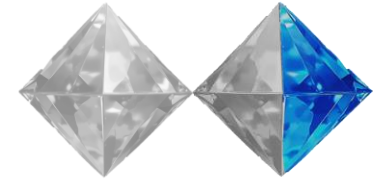
HCAI

- **Idea:** simple keyword-based search with lemmatization for explainability and user trust.
- **Idea:** Use open-access textbooks for legal compliance.

HCD

- **Idea:** navigate citations among legal documents, supporting efficient and effective research
- **Idea:** Use citation counts for ranking the results

Example: TENJI



DELIVER

HCAI

- Stakeholders need to **assess the expected value of alternatives**, balancing needs such as explainability versus performance

HCD

- TENJI is in its second iteration and was **usability tested** with law students solving exam questions, compared to those using standard digital materials.

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