

Generative KI Projektplanungs-Toolkit

Dieses Projektplanungs-Toolkit führt Sie durch die entscheidenden Phasen der Implementierung von KI-Lösungen in Ihrem Unternehmen. Die Vorlagen helfen Ihnen dabei, Ihre Überlegungen zu strukturieren und sicherzustellen, dass Sie alle kritischen Aspekte einer KI-Einführung berücksichtigen.

Beginnen Sie mit dem **Problem Canvas**, um Ihre Herausforderung und die Kriterien für einen Projekterfolg klar zu definieren. Nutzen Sie den **Solution Component Canvas**, um potenzielle Lösungsansätze zu skizzieren und abzuwägen, ob Sie eine Lösung selbst entwickeln, kaufen oder bestehende Systeme wiederverwenden („Build, Buy or Reuse“). Der **Data Processing Canvas** unterstützt Sie dabei, die Datenanforderungen und die Komplexität der benötigten KI-Verarbeitung zu bewerten.

Im weiteren Verlauf nutzen Sie den **Risk Canvas**, um potenzielle Risiken zu identifizieren und zu quantifizieren, bevor Sie mit dem **Guardrails Canvas** entsprechende Leitplanken und Sicherheitsvorkehrungen festlegen. Schließlich hilft Ihnen das **Business Case Sheet** dabei, Kosten, Nutzen und Zeitpläne zu bewerten, um fundierte Entscheidungen über die Umsetzung zu treffen.

Im Folgenden finden Sie die verschiedenen Canvases mit einer kurzen Erläuterung der jeweils erwarteten Inhalte, gefolgt von leeren Vorlagen für Ihre eigenen Projekte. Diese Templates entfalten ihre volle Wirkung im Zusammenspiel: Gemeinsam bilden sie einen umfassenden Rahmen, um von der ersten Idee zur erfolgreichen KI-Implementierung zu gelangen. Während dieser Überblick die Struktur vorgibt, finden Sie eine **detaillierte Anleitung** zur Nutzung jeder einzelnen Vorlage in Kapitel 6 meines Buches „Making Sense of Generative AI“.

Problem Canvas

Present

- Current Situation:** *How do things work today?*
- Pain Points:** *What makes the current way of working inefficient or frustrating?*
- Stakeholders:** *Which persons and teams are involved?*
- Time Scale:** *How often does the situation occur?*

Challenge Name:

Future

- Target Situation:** *In a perfect world, how would a good situation look like?*
- Success Measure:** *How can you quantify progress toward the ideal target state?*

Context

- Data Involved:** *Which data, information, documents are involved? What data is expected by users and by the AI?*
- Dependencies:** *On which IT systems, events persons, etc. does the overall process depend on? Which other processes depend on it?*
- Risks:** *Do you see potential negative impact when resolving this challenge?*
- Assumptions:** *Which strategic assumptions on your solution approach and future state will be validated (or not)?*
- Open Questions:** *What aspects are still unclear, and who can answer them?*
- Time Scale:** *To the best of your knowledge, is it rather a quick-win or a longer running initiative?*

Data Processing Canvas

Data Usage

- Data Source:** *Where does the data come from?
What is the content of this data?*
- Data Target:** *How will the AI provide its results?
What content will the AI deliver?*
- Specific Language:** *Will you process domain-specific terminology? How important is it to be precise about words and formulations?*
- Data Transformation:** *How is the AI expected to process the data?*

Impact Estimate

- Content Complexity:** *How challenging is the content that gets processed?*
- Availability of data:** *How much and which exemplary data can you provide? How good is the data quality?*
- Transformation complexity:** *How is the data transformed by AI? How complex does this appear? How many different tasks are performed?*

Solution Component Canvas

General

- What:** *What does the solution do?*
- Why:** *What problem does it solve?*
- Alternatives:** *What are alternative approaches, if any?
Why are they dis-favored?*

Make, Buy, Re-Use

- Buy:** *What are potential vendors?
What do they charge?*
- Make:** *What would be the efforts to build it?
Who would be needed for how long?*
- Re-Use:** *Are there re-usable solutions in the
company? Efforts and costs to adapt it?*
- Strategic Relevance:** *Are the capabilities provided of strategic
relevance to the business strategy?*
- Decision:** *Buy, make or re-use?
What are the reasons?*

Technical Dependencies

- Infrastructure:** *Where does the solution run? What
capabilities are needed?*
- Integrations:** *To which other IT systems will the
solution communicate?*
- Operations:** *Which efforts occur for monitoring the
system, keep it working and main-
training it?*
- Stakeholders:** *Who needs to be involved due to
these dependencies?*
- Open Questions:** *Which questions are unclear, and
who can answer them?*

Solution Name:

Risks Canvas

General

Scenario: *Describe what happens?
Describe why this would be negative?*

Likelihood: *How likely is this going to happen?*

Impact: *How large would be the
negative impact?*

Comments: *Comments, reasons for taking
the estimates on likelihood and impact?*

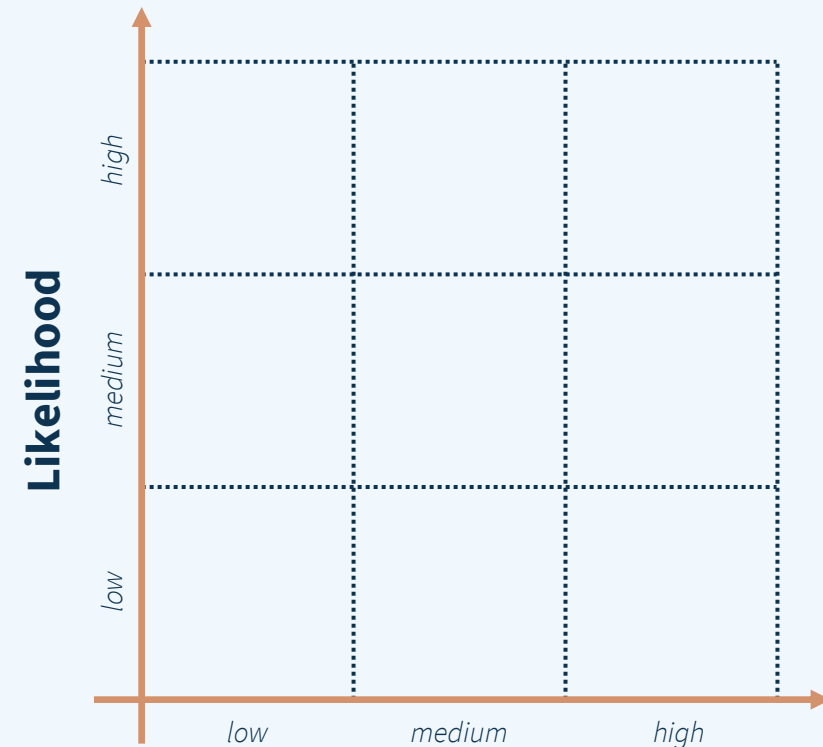
Risk Name:

Mitigation

What: *Options to mitigate the risk?*

Costs: *How expensive would the mitigation be?*

Use this matrix to visualize and prioritize your identified risks. Plot each risk based on two factors: how likely it is to occur and how severe its negative impact would be. Risks in the upper right quadrant (high likelihood, high impact) need immediate attention and mitigation strategies. Work your way diagonally down-left, addressing medium-high risks next. This visualization helps you focus resources on the most critical risks first.



Impact

Guardrails Canvas

Requirements

Critical Behavior:	<i>What malicious ways can users try to access harmful content or bypass the AI? Which undesired behavior to prevent?</i>
Risk Addressed:	<i>What is the most harmful, wrong or confidential information that could be provided through data sources to the AI?</i>
Performance Requirements:	<i>What technical limitations are needed to ensure stable systems? How would they impact users?</i>
Compliance Needs:	<i>What kind of harmful, wrong or confidential information could be provided by your AI or application?</i>

Implementation

Type of Guardrail:	<i>How can you assess correctness of content? Which input, output and processing controls to apply</i>
Priority:	<i>How critical is the implementation of this guardrail, compared to others? What is the impact if this guardrail fails</i>
Requirements:	<i>What data, systems, processes need to be in place ? Which stakeholders need to be involved?</i>
How to test:	<i>Through which quality measure will you verify that this guardrail works as intended? How to test for potential bypasses?</i>

Guardrail Name:

Business Case Canvas

Value Creation

Type of Value:	<i>Efficiency gains, quality improvements, new capabilities and revenue streams?</i>
Details:	<i>How exactly and where is value created?</i>
Efficiency Savings:	<i>Current and target process costs, times per year someone runs the process?</i>
Quality Gains:	<i>How and how much is quality improved?</i>
New revenues:	<i>Number of esteemed customers, benefit for customers, payment model, etc.?</i>

Metrics

Break-even:	<i>At which point will the returns/ value created be higher than investments?</i>
Return-on-Invest:	<i>How much value is created compared to investments after 1 year?</i>
Unexpected risks:	<i>What are likely events that can increase the costs?</i>

Cost Analysis

Development:	<i>One-time costs</i>
Infrastructure:	<i>One-time costs</i>
Operations:	<i>Recurring costs</i>
Maintenance:	<i>Recurring costs</i>
Support, training:	<i>Recurring costs</i>
Risk Buffer:	<i>How much funding should be planned as buffer for unexpected events?</i>

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Leere Canvases zum Ausfüllen



Problem Canvas

Present

Current Situation:

Pain Points:

Stakeholders:

Time Scale:

Challenge Name:

Future

Target Situation:

Success Measure:

Context

Data Involved:

Dependencies:

Risks:

Assumptions:

Open Questions:

Time Scale:

Data Processing Canvas

Data Usage

Data Source:

Data Target:

Specific Language:

Data Transformation:

Impact Estimate

Content Complexity:

Availability of data:

Transformation
complexity:

Solution Component Canvas

General

What:

Why:

Alternatives:

Make, Buy, Re-Use

Buy:

Make:

Re-Use:

Strategic Relevance:

Decision:

Technical Dependencies

Infrastructure:

Integrations:

Operations:

Stakeholders:

Open Questions:

Solution Name:

Risks Canvas

General

Scenario:

Likelihood:

Impact:

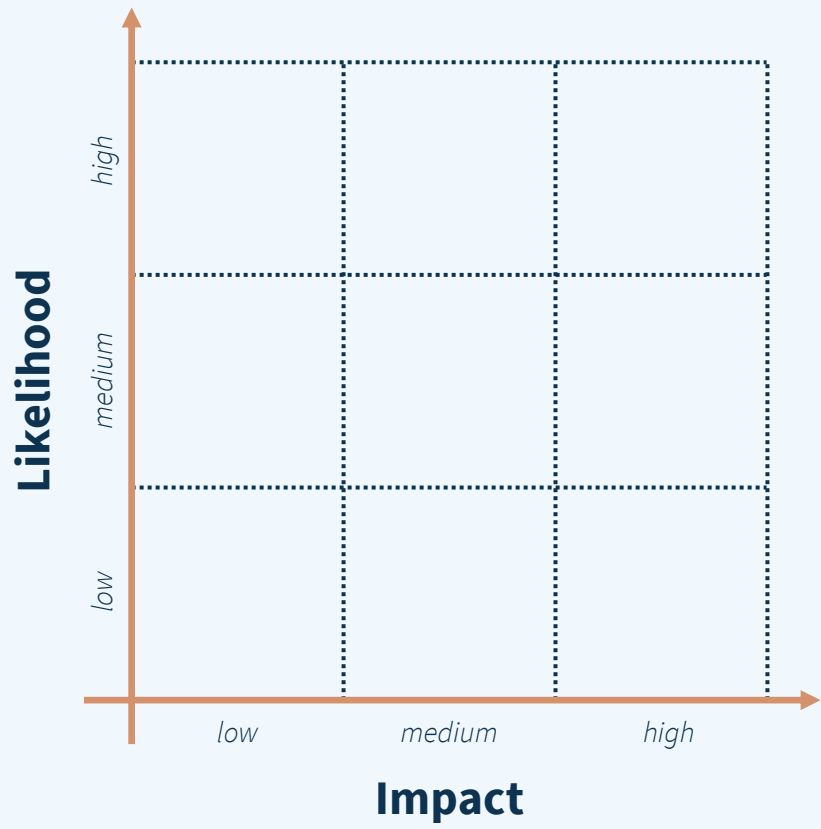
Comments:

Risk Name:

Mitigation

What:

Costs:



Guardrails Canvas

Requirements

Critical Behavior:

Risk Addressed:

Performance
Requirements:

Compliance Needs:

Implementation

Type of Guardrail:

Priority:

Requirements:

How to test:

Guardrail Name:

Business Case Canvas

Value Creation

Type of Value:

Details:

Efficiency Savings:

Quality Gains:

New revenues:

Metrics

Break-even:

Return-on-Invest:

Unexpected risks:

Cost Analysis

Development:

Infrastructure:

Operations:

Maintenance:

Support, training:

Risk Buffer:

Generative KI Projektplanungs-Toolkit

Während dieses Toolkit Sie bei den einzelnen Schritten während Ihres KI-Projektes unterstützt, müssen Sie die Canvas sukzessive mit Leben füllen. Mehr Details zur Nutzung jeder einzelnen Vorlage finden Sie in Kapitel 6 meines Buches „Making Sense of Generative AI“.

Haben Sie Fragen oder Anregungen zu diesem Toolkit?
Begegnen Ihnen individuelle Herausforderungen bei der Planung oder Durchführung Ihres KI Projekts, bei denen Sie nicht weiter wissen?

Sie erreichen mich jederzeit über meine Website:

<https://hoerndlein-consulting.de/de/contact>