

Disruptive Technologien in der Bildung

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Transformative
Technologien sind
demokratisiert

Die Motoren unserer Zukunft



Künstliche Intelligenz



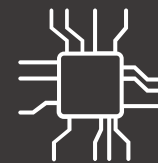
Internet of Things



Mixed Reality



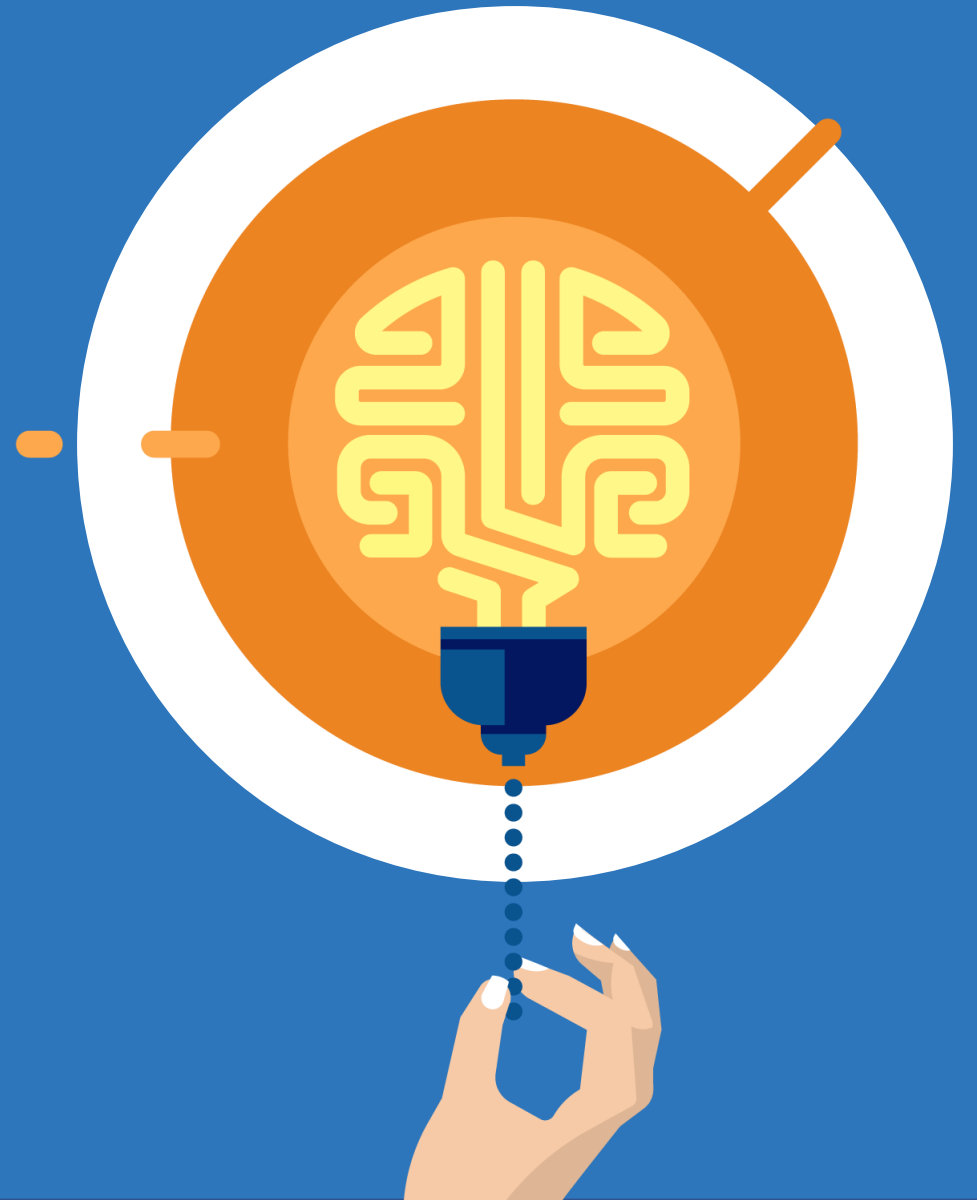
Blockchain



Quantum Computing

Was ist künstliche Intelligenz [KI]

Ein Definitionsversuch



Was ist eigentlich KI?

Definitionsversuch aus technologischer Sicht

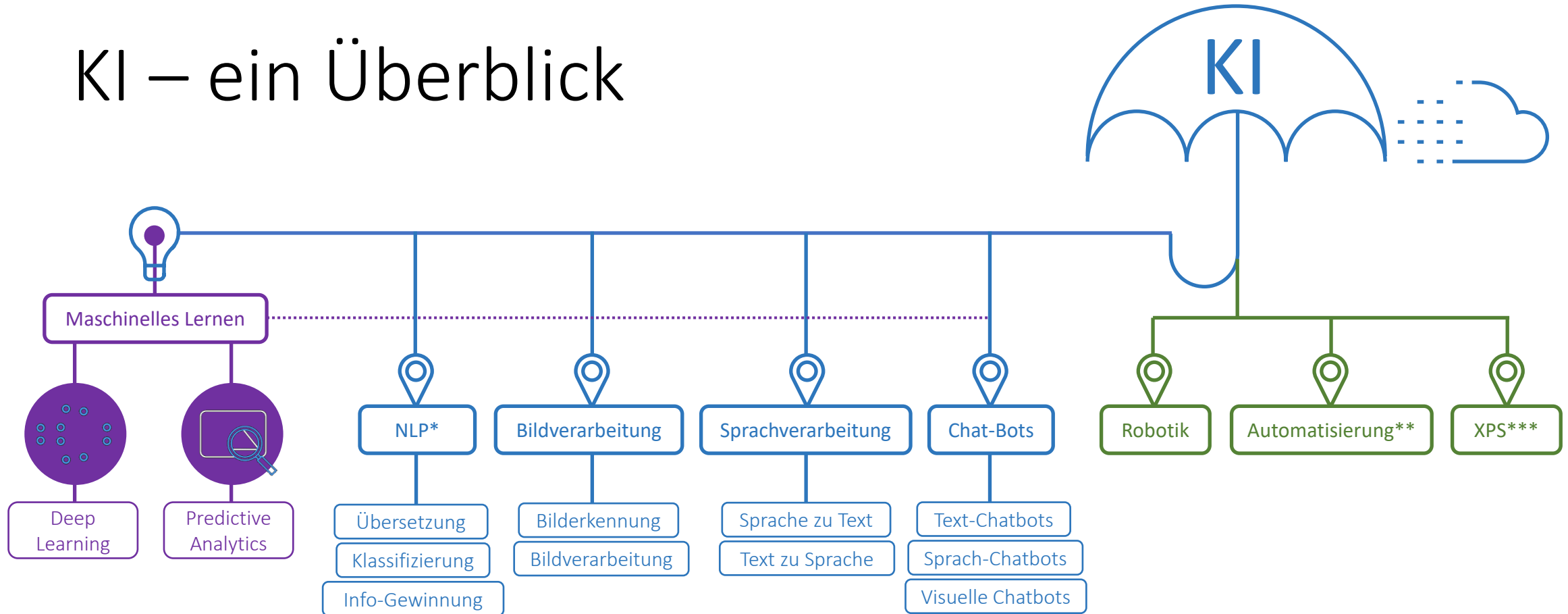
KI ist ein Oberbegriff für Maschinen bzw. Programme, die zur „Wahrnehmung“, Logik und zum Lernen fähig sind.

Definition der Encyclopædia Britannica:

KI ist die Fähigkeit eines digitalen Computers oder computergesteuerten Roboters, Aufgaben zu erfüllen, die üblicherweise intelligenten Wesen zugeschrieben werden.



KI – ein Überblick



* Natural Language Processing

** maschinelle Prozessautomatisierung

*** Expertensysteme

Natürliche Sprache

Natural Language Processing (NLP), also die Verarbeitung von menschlicher Sprache ist eine Technologiegruppe, die sich das maschinelle Lernen zu Nutze macht, um Aufgaben, wie maschinelles Übersetzen von Sprache oder Analyse von Texten zu bewältigen. Populäre Beispiele für NLP sind Online-Übersetzungsprogramme, wie Microsoft Translate oder DeepL, Sentiment Analyse, also die Analyse von Texten hinsichtlich ihrer Stimmung oder die Informationsgewinnung, z.B. das sinnvolle Zusammenfassen grosser Texte.



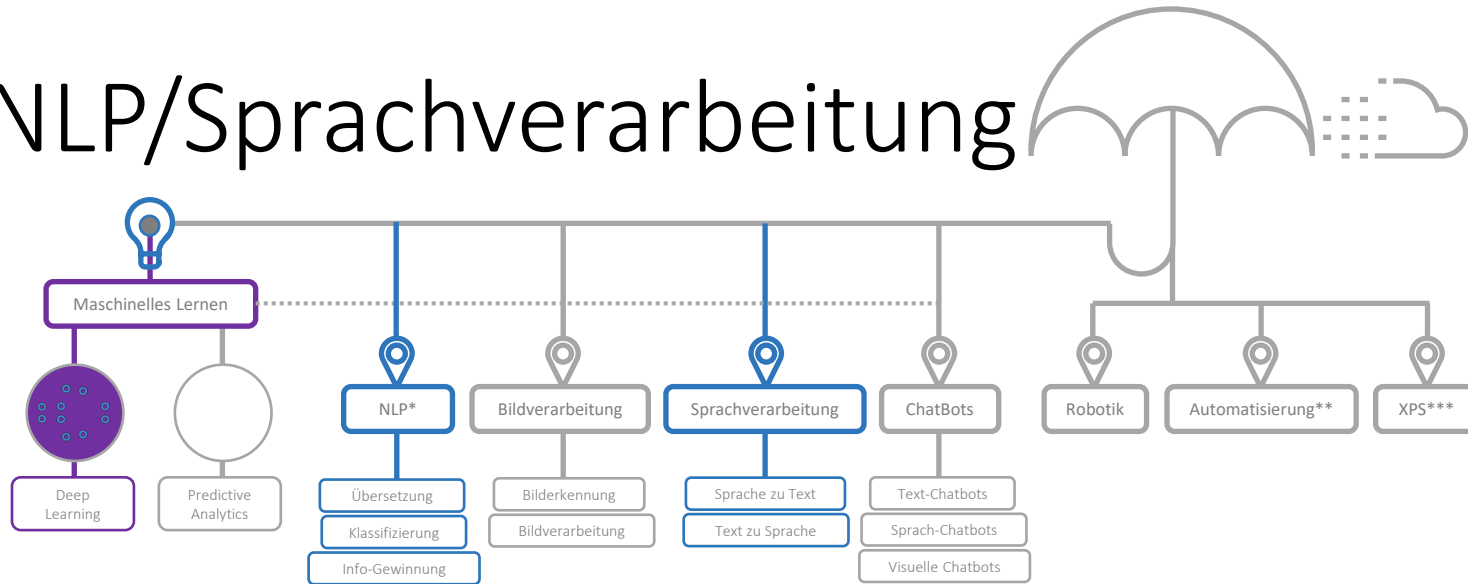
Sprachverarbeitung

Unter maschineller Sprachverarbeitung (nicht zu verwechseln mit NLP) versteht man die KI-Technologien, die sich um die Umwandlung von Text zu Sprache und Sprache zu Text kümmern.

Populäre Beispiele hierfür sind Diktierprogramme oder Programme zur Transkription oder automatischen Untertitelerstellung. Auch hierzu werden aktuell Deep Learning Technologien eingesetzt.



NLP/Sprachverarbeitung



- PowerPoint: Untertitelfunktion
- OneNote & andere Office-Programme: Plastischer Reader
- PowerPoint: Live Übersetzung
- Lesefortschritts-Funktion in Microsoft Teams



Lexplore

Wissenschaftlich fundierter Test der Lesefähigkeit mithilfe von KI und Eye-Tracking.
Zeit- und kosteneffektiv mit sicheren Ergebnissen und Empfehlungen.

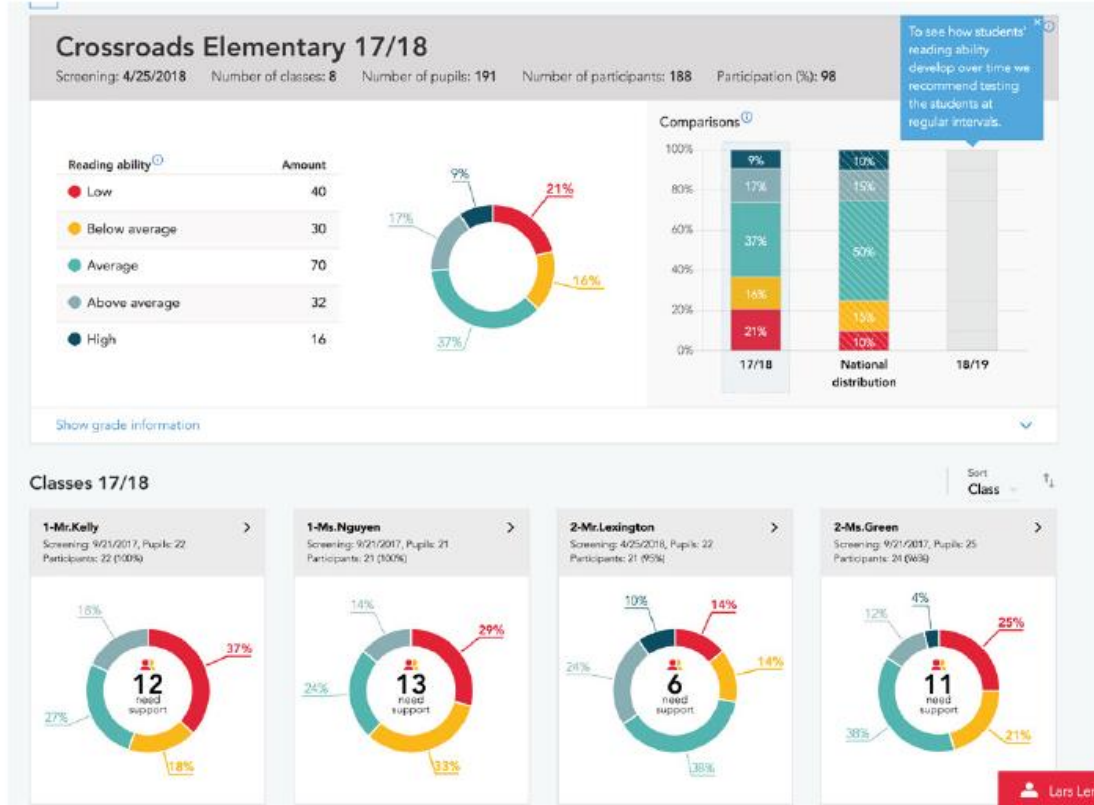


Augenbewegungen eines Schülers mit guter Lesekompetenz

Karen wants a cat. She loves cats. They are so soft to pet. Karen wants a kitten for Christmas. It could sleep in her room. Karen is looking forward to Christmas. Maybe Santa will give her a cat. Karen will be so happy if he does.

Augenbewegungen eines Schülers mit Leserechtschreib-Schwäche

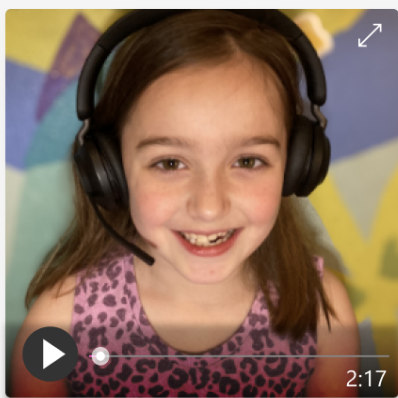
Karen wants a cat. She loves cats. They are so soft to pet. Karen wants a kitten for Christmas. It could sleep in her room. Karen is looking forward to Christmas. Maybe Santa will give her a cat. Karen will be so happy if he does.





Reading Progress

Cancel



Krystal McKinney

Attempts: 2 Level: B Words: 207 Insights

41
Correct Words per Minute ⓘ

83%
Accuracy Rate ⓘ

- 5 Mispronunciations
- 2 Omissions
- 1 Self-corrections

- 1 Insertions
- 0 Repetitions

Auto-Detect ^{PREVIEW} ⓘ

Pronunciation sensitivity ⓘ

Low

The study of Earth's **landforms** is called physical geography. Landforms can be mountains and valleys. They can also be **glaciers**, lakes, or rivers. Landforms are sometimes called physical features. It is important for students to know about the physical geography of Earth.

The seasons, the **atmosphere** and all **the** natural processes of Earth affect where people are able to live. Geography is one of a **combination** of factors that people use to decide where they want to live.

The **physical** features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S., major mountain ranges are the Sierra Nevada, the Rocky Mountains, and the Appalachians.

Fresh water sources also influence where people settle. People need water

< **KM** Krystal McKinney ▾ >

Student work
Not turned in [View history](#)

Geography of the Earth ...

Feedback

Enter feedback

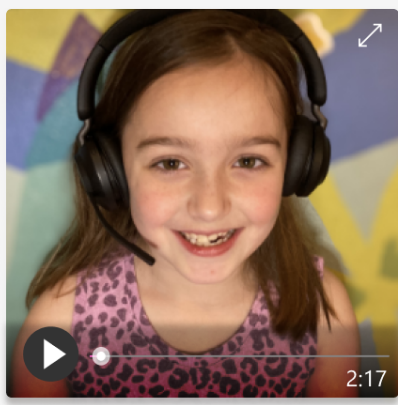
Points
 / 100

Return



Reading Progress

Cancel



Auto-Detect PREVIEW ⓘ

Pronunciation sensitivity ⓘ
 Low

Krystal McKinney

Attempts: 2 Level: B Words: 207 [Insights](#)

41 Correct Words per Minute ⓘ	83% Accuracy Rate ⓘ	5 Mispronunciations	1 Insertions
		2 Omissions	0 Repetitions
		1 Self-corrections	

The study of Earth's **landforms** is called physical geography. Landforms can be mountains, hills, valleys, and plains. Landforms are some of the most important physical features. It is important for students to know about the physical geography of Earth.

The seasons, the climate, and the location of a place are all **the** natural processes of Earth affect where people settle. Physical geography is one of a **combination** of factors that influence where they want to live.

The **physical** features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S., major mountain ranges are the Sierra Nevada, the Rocky Mountains, and the Appalachians.

Fresh water sources also influence where people settle. People need water

- Correct
- Omission
- Insertion
- Mispronunciation
- Repetition
- Self-correction

Edit text >

Jump to word

< **KM** Krystal McKinney ⌵ >

Student work
Not turned in [View history](#)

Geography of the Earth ⋮

Feedback

Enter feedback

Points
 / 100

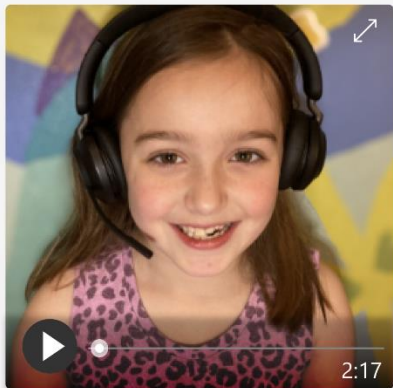
[Return](#)



Reading Progress

Close

Accuracy Prosody Practice



Christie Cline

Attempts: 2 Level: B Words: 207 [Insights](#)

3/4
Prosody Score ⓘ

Expression
Monotone

Missed a period
Missed a comma

Missed a question mark
Stopped for over 2 seconds

Auto-Detect Prosody ⓘ

Show Syllable Stress ⓘ

Have you ever looked up at clouds and wondered where they come from?

Or what they are made of? Clouds can be different shapes, but they are a

mostly made of water.

There are always small particles of water in the air that people can't see. A

< Cline, Christie >

Student work
Not turned in [View history](#)

Geography of the Earth ...

Feedback

Enter feedback

Points
/ 100

Return



Activity



Chat



Teams



Assignments



Calendar



Files



Store



Help

Reading Coach

atmosphere



landforms



combination



physical



factors



These words were the most challenging for you. Select any word to tackle them again.

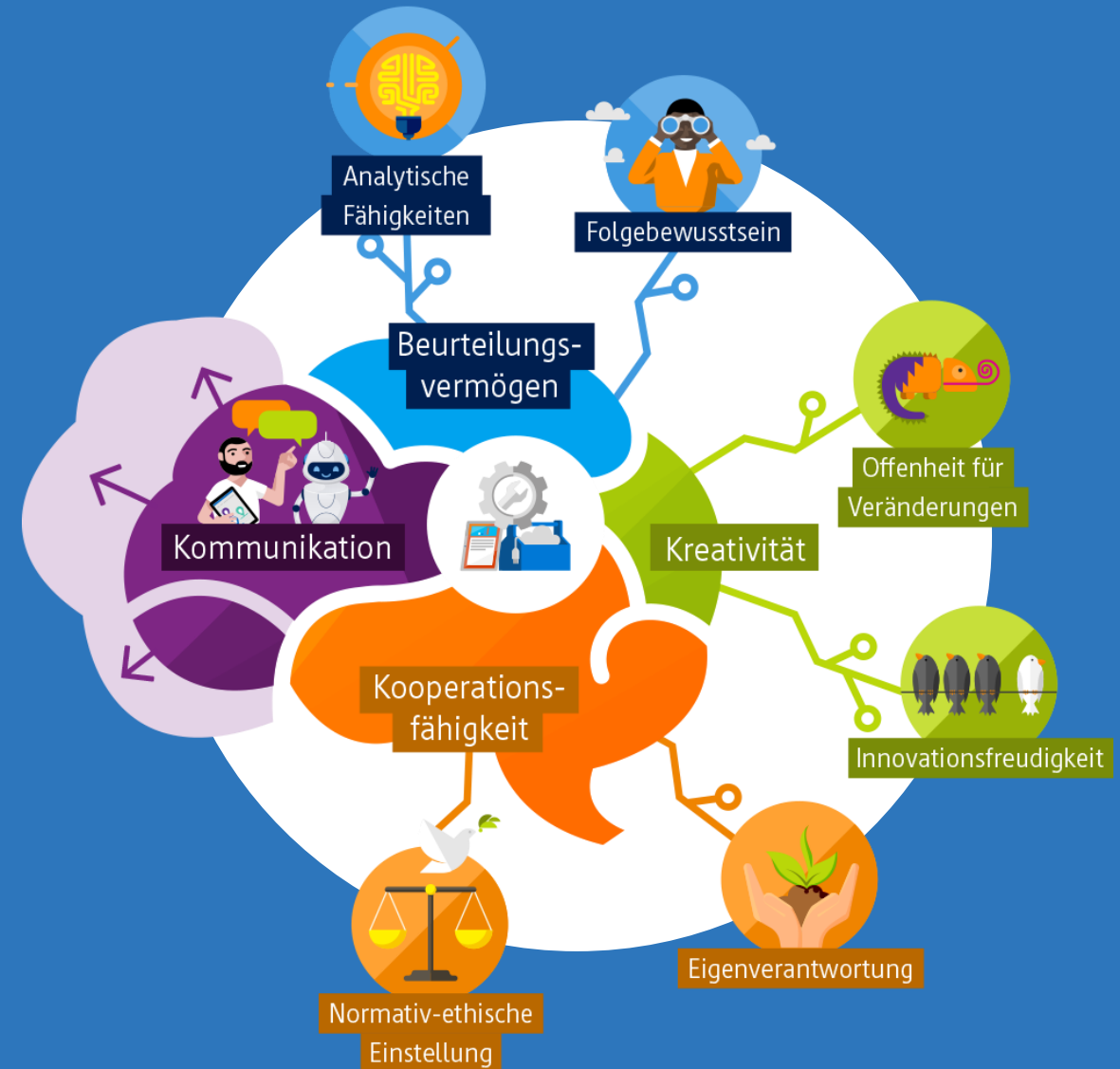
Kompetenzen im Zeitalter von KI

Welche Kompetenzen benötigen wir?



Kompetenzen & KI

Das 21st Century Skills Framework beschreibt, dass **Communication**, **Collaboration**, **Critical Thinking**, und **Creativity** also die **4C** entscheidende Kompetenzbausteine in einer digitalen Gesellschaft sind. Doch das reicht in einer Welt von KI nicht aus.





Digital im Dialog



Gruppe: **Digitale Transformation
an Schweizer Schulen**



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