

# Supplementary Material

## Information Foraging with Generative AI: Usage Patterns in Germany and Israel

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## Supplementary 1: Organizing IFT concepts and their operationalization

An organizing table of the Information Foraging Theory (IFT) concepts this study addresses, what they mean, how they were operationalized (i.e., measurements), and which of the questionnaire items (see Supplementary 6) were included in the study.

<b>IFT key factors</b>	<b>Key factors' focus</b>	<b>Operationalization (i.e., measurements)</b>	<b>How they were assessed (i.e., the statements used)</b>	<b>Optional values</b>
Currency	The benefits or gained value that an information forager seeks to maximize through its foraging behavior	Perceived comprehensibility of GenAI content	“Generative AI technologies deliver comprehensible information”.	Values ranged between 1 = strongly disagree to 5 = strongly agree.  “I don’t know” responses were coded a missing value.
		Perceived responsiveness to users’ need of GenAI	“Generative AI technologies are responsive to users’ information needs.”	
Costs	The downside and sacrifices involved in information foraging	Epistemic AI knowledge	“When AI is used to make decisions, it is always free of bias.”	True, false, I don’t know.
			“Generative AIs (like ChatGPT) are based only on sources that are trustworthy and knowledgeable in the topic.”	
			“The answers provided by generative AIs (like ChatGPT) are always true”	
Forager attributes	Foragers’ characteristics that can explain the searching and information	Number of GenAI regularly used	<p>“Have you ever heard of, or used, the following technologies?”</p> <ul style="list-style-type: none"> <li>· ChatGPT</li> </ul>	None regular users: “I am hearing about it here for the first time”, “I heard the name, but never used it”, “I used it once or twice”.

	acquisition behavior. Here, we focus on skills and a form of ‘informed state.’	Frequency of GenAI used (for all GenAI tools)	<ul style="list-style-type: none"> <li>· Microsoft Copilot in Bing (formerly Bing Chat)</li> <li>· Perplexity AI</li> <li>· Google Gemini (formerly Google Bard)</li> </ul>	Regular users: “I use it several times a month”, “I use it several times a week”, “I use it daily”. “I don’t know” was coded as missing value.
		Content & procedural AI knowledge	“Some AI technologies can learn from the humans who interact with them”	True, false, I don’t know.
			“Some AI technologies learn by recognizing patterns in training data”	
			“The examples provided to the AI, when trained, affect its output”	
			“All algorithms are a form of an AI”	
			“When generative AIs (like ChatGPT) answer you, they calculate the probability of the next words one after another to form sentences”	
			“When generative AIs (like ChatGPT) answer you, they consider the context of the conversation so far”	

Dietary breadth	How wide or narrow the range of information sources is. Adapted to the context of GenAI, how many information purposes the sources serves.	Number of information purposes	Regular users were asked: “Generative AI can be used for many different purposes. For what purposes do you use generative AI technologies like ChatGPT or Google Gemini in your daily life? Please select all that apply.”	Information purposes: “Assistance with language or writing (e.g., translating text, drafting content)”, “Seeking inspiration (e.g., generating ideas for cooking or travel)”, “Searching for knowledge and facts (e.g., answering questions on various topics)”;  None-information purposes: “Creating AI-generated images, music, or other creative output”, “Being a conversation partner (e.g., talking to a chatbot for enjoyment)”, “None of these. Instead, I use it for _____.”  “I don’t know” responses were treated as missing values.
			Regular users were asked about the technologies they reported to use regularly: “Which of the following technologies do you use to search for information about science?”  <ul style="list-style-type: none"> <li>· ChatGPT</li> <li>· Microsoft Copilot in Bing (formerly Bing Chat)</li> <li>· Perplexity AI</li> <li>· Google Gemini (formerly Google Bard)</li> <li>· Google Search</li> </ul>	Marking at least one of the GenAI tools for searching science-related information was coded as using GenAI to access science-related information.

			<ul style="list-style-type: none"> <li>· Smart personal assistants (e.g. Alexa, Siri, Google Assistant)</li> <li>· None of these. Instead, I use...</li> <li>· Not applicable to me / I don't know</li> </ul>	
Prey choice	The decision to take or pass by particular information sources once they are encountered, based on whether their handling efficiently yields a valuable return	Highest level of information complexity reported	Regular users were asked: "Generative AI can be used for many different purposes. For what purposes do you use generative AI technologies like ChatGPT or Google Gemini in your daily life? Please select all that apply."	Information purposes: "Assistance with language or writing (e.g., translating text, drafting content)", "Seeking inspiration (e.g., generating ideas for cooking or travel)", "Searching for knowledge and facts (e.g., answering questions on various topics)";  None-information purposes: "Creating AI-generated images, music, or other creative output", "Being a conversation partner (e.g., talking to a chatbot for enjoyment)", "None of these. Instead, I use it for _____." "I don't know" responses were treated as missing values.
			Regular users were asked about the technologies they reported to use regularly: "Which of the following technologies do you use	Marking at least one of the GenAI tools for searching science-related information was coded as using GenAI to access science-related information.

			<p>to search for information about science?”</p> <ul style="list-style-type: none"><li>· ChatGPT</li><li>· Microsoft Copilot in Bing (formerly Bing Chat)</li><li>· Perplexity AI</li><li>· Google Gemini (formerly Google Bard)</li><li>· Google Search</li><li>· Smart personal assistants (e.g. Alexa, Siri, Google Assistant)</li><li>· None of these. Instead, I use...</li><li>· Not applicable to me / I don't know</li></ul>	
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## Supplementary 2: Sample composition

### Sample composition: Germany

	n	mean	SD
Age (ranging 18-69)	562	44.92	14.57

		n	%
Gender	Female	288	51.2
	Male	274	48.8
	Total	562	

		n	%
Education	Primary	168	29.9
	Secondary (e.g., high school)	186	33.1
	Higher (e.g., university degree)	208	37.0
	Total	562	

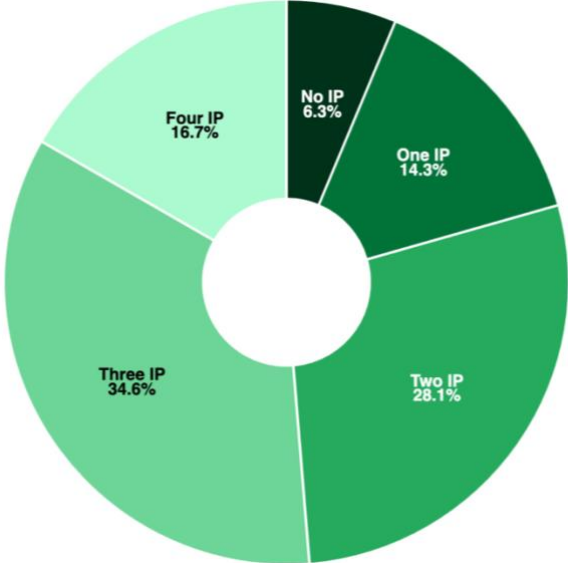
### Sample composition: Israel

	n	mean	SD
Age (ranging 18-87)	500	44.12	17.29

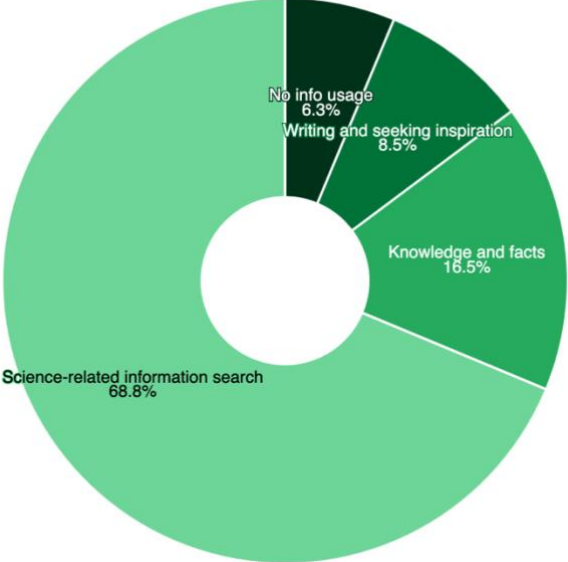
		n	%
Gender	Female	259	52.1
	Male	238	47.9
	Total	497	

		n	%
Education	Primary	16	3.2
	Secondary (e.g., high school)	213	42.6
	Higher (e.g., university degree)	271	54.2
	Total		

Supplementary 3: Distribution of dietary breadth and prey choice



**Dietary breadth: the number of measured information purposes (IP) that regular GenAI users utilize the technology for.**



**Prey choice: the most complex information that regular GenAI users reported utilizing the technology for.**

Supplementary 4: Item-response probabilities for the latent classes, for both samples

**Item-response probabilities (means and proportions) for the three latent classes identified in the Israeli sample.**

	Class 1	Class 2	Class 3
	<b>Skeptical Minimalists</b>	<b>Reserved Experts</b>	<b>Favoring Pragmatists</b>
<b>Indicator</b>	(n = 66)	(n = 56)	(n = 132)
Perceived comprehensibility (1–5)	2.74	3.49	4.16
Perceived responsiveness (1–5)	3.47	3.75	4.39
Content & procedural knowledge (1–7)	4.86	5.57	5.48
Epistemic knowledge (1–4)	2.77	3.27	2.77
Number of tools regularly used (1–4)	1.24	2.39	1.44
Frequency of GenAI use (% within class)			
Several times a month	80.3%	7.1%	43.9%
Several times a week	19.7%	42.9%	38.6%
Daily	0%	50.0%	17.4%

Item-response probabilities are presented as observed class-specific means (continuous indicators) or proportions (categorical indicators).

**Item-response probabilities (means and proportions) for the four latent classes identified in the German sample.**

	Class 1	Class 2	Class 3	Class 4
	<b>GenAI-Savvy Abstainers</b>	<b>Naïve Enthusiasts</b>	<b>Cautious Skeptics</b>	<b>Passive Optimists</b>
<b>Indicator</b>	(n = 94)	(n = 24)	(n = 21)	(n = 20)
Perceived comprehensibility (1–5)	4.1	4.42	2.72	3.58
Perceived responsiveness (1–5)	3.83	4.46	2.78	2.84
Content & procedural knowledge (1–7)	5.54	4.67	3.67	3.05
Epistemic knowledge (1–4)	3.32	1.33	2	2.25
Number of tools regularly used (1–4)	1.53	3.38	1.29	1.45
Frequency of GenAI use (% within class)				
Several times a month	55.3%	0%	38.1%	45%
Several times a week	35.1%	29.2%	33.3%	55%
Daily	9.6%	70.8%	28.6%	0%

Item-response probabilities are presented as observed class-specific means (continuous indicators) or proportions (categorical indicators).

## Supplementary 5: The full questionnaire

The English version of the questionnaire. Please note that not all variables included in the original questionnaire are utilized in this study. For a detailed account of the variables we included, see Supplementary 1.

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Start of Block: CONSENT

Thank you for your interest in participating in this study!

This study is run by an international team of researchers and is led by researchers at TU Braunschweig and LMU Munich, Germany. Before you begin, it is important that you are informed about the purpose and procedure of this research. Please read the following information carefully.

### **Purpose of this research**

The purpose of this research is to gain insights into people's perception and use of artificial intelligence (AI). This research can help us to better understand how people engage with new AI technologies in everyday life, for instance when searching for information.

### **What to expect from this study**

In the first part of this study, you will be asked to answer questions on your attitudes, perception, and knowledge about artificial intelligence (AI). In the second part, you will further be asked about your use of AI technologies, with a focus on searching for information about science. Guidance on how to answer questions will be provided.

### **Anonymity**

No personally identifying information will be collected, and your answers remain anonymous at any stage of the study. All research data that is made publicly available, e.g. in scientific journals or elsewhere, will be anonymous and cannot be traced back to you.

### **About this study**

Participation will take about 10 minutes. You participate voluntarily and can choose not to take part. You can agree to take part and later change your mind. Your decision will not be held against you. You can ask all the questions you want before you decide.

There are no right or wrong answers, and we are interested in your personal views. Therefore, please select the response options that most closely resemble your opinion. If you feel uncomfortable answering a specific question, you can select the option "I don't know."

If you have questions, concerns, or complaints, please contact:

**[insert your country-specific contact details here]**

By selecting "I consent to participate", you consent to the terms and conditions described above.

- I consent to participate (1)  
 I do NOT consent to participate (0)

End of Block

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Start of Block

[GENDER]

**At the beginning of this survey, we'd like to ask you for some information about yourself.**

**What gender do you identify with?**

- Female (0)
- Male (1)
- Non-binary (2)
- Prefer not to say (99)

[AGE]

**How old are you?** \_\_\_\_\_ years

[EDUCATION]

**What is your highest completed level of education?**

**[If necessary, insert your country-specific examples]**

- Primary education (2)
- Secondary education (e.g., high school) (3)
- Higher education (e.g., university degree or higher education diploma) (4)
- Did not attend school (1)

End of Block

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Start of Block

[DEF\_AI]

**When we talk about Artificial Intelligence (AI) in this questionnaire, we refer to the ability of computers and machines to perform tasks that normally require human intelligence. AI can perform these tasks or make these decisions without explicit human instructions.**

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[ATTITUDES]

**How much do you agree or disagree with the following statements about AI?**

**(randomized)**

	strongly disagree (1)	(2)	(3)	(4)	strongly agree (5)	I don't know (99)
AI is morally acceptable. [ATT_moral]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AI is useful for society. [ATT_society]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall, I support the use of AI. [ATT_suppuse]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall, I support research on AI development. [ATT_suppresearch]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

As a society, we are prepared for the effects of AI applications. [ATT_prepared]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There will be unintended consequences of AI applications. [ATT_consequ]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[RISKBENEFIT]

**The development of AI has sparked various discussions about its risks and benefits. Below is a list of AI's potential strengths and concerns. According to your personal opinions, how likely do you think it is that AI will...**

**(randomized)**

	not at all likely (1)	(2)	(3)	(4)	certain (5)	I don't know (99)
...strengthen the national economy. [RB_economy]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...increase national security. [RB_security]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...improve individuals' health. [RB_health]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...reduce bias in human decision making. [RB_decision]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...help fight terrorism threats. [RB_terror]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...worsen societal inequalities. [RB_inequality]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...give some people too much power. [RB_power]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...threaten personal liberties. [RB_liberties]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...change what it means to be human. [RB_human]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...displace workers by automating their jobs. [RB_jobs]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...increase the spread of misinformation. [RB_misinfo]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
...bring benefits to the field of education.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[RB\_education]

End of Block

Start of Block

[LITERACY\_AI]

**Below are some statements about AI and algorithms. By algorithms we mean a set of rules a computer follows to achieve a particular goal.**

**It is difficult to know the answers to all of these, but please tell us if you think each is true or false.**

**(randomized); t = true; f = false**

	true (1)	false (2)	I don't know (99)
Some AI technologies can learn from the humans who interact with them. (t) [LIT_AI1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Some AI technologies learn by recognizing patterns in training data. (t) [LIT_AI2]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The examples provided to the AI, when trained, affect its output. (t) [LIT_AI3]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All algorithms are a form of an AI. (f) [LIT_AI4]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When AI is used to make decisions, it is always free of bias. (f) [LIT_AI5]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[LITERACY\_GENAI]

**Within the larger field of Artificial Intelligence (AI), generative AI is a particular type of AI that produces original content based on patterns and examples it has learned from a large amount of existing data. One of the most prominent examples of generative AI is ChatGPT.**

**Do you think each of the following statements is true or false?**

**(randomized); t = true; f = false**

	true (1)	false (2)	I don't know (99)
When generative AIs (like ChatGPT) answer you, they calculate the probability of the next words one after another to form sentences. (t) [LIT_genAI1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When generative AIs (like ChatGPT) answer you, they consider the context of the conversation so far. (t) [LIT_genAI2]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Generative AIs (like ChatGPT) are based only on sources that are trustworthy and knowledgeable in the topic. (f)

[LIT\_genAI3]

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The answers provided by generative AIs (like ChatGPT) are always true. (f)

[LIT\_genAI4]

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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End of Block

Start of Block

[TRUST1]: ON THREE PAGES (THREE BLOCKS)

**To what extent do you agree or disagree with the following statement?**

	strongly disagree (1)	(2)	(3)	(4)	strongly agree (5)	I don't know (99)
Overall, I can trust generative AI technologies. [TRUST_overall]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[TRUST2]

**And to what extent do you agree or disagree with the following statements?**

**(randomized)**

	strongly disagree (1)	(2)	(3)	(4)	strongly agree (5)	I don't know (99)
Generative AI technologies prioritize users' well-being. [TRUST_BEN_prioritize]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies deliver comprehensible information. [TRUST_TRANS_comprehensible]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies are responsive to users' information needs. [TRUST_DIAL_responsive]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies are competent in their area of expertise. [TRUST_COMP_competent]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies are reliable. [TRUST_COMP_reliable]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[TRUST3]

**And to what extent do you agree or disagree with the following statements?  
(randomized)**

	strongly disagree (1)	(2)	(3)	(4)	strongly agree (5)	I don't know (99)
Generative AI technologies would do their best to help users if they needed help. [TRUST_BEN_help]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies welcome users to engage with them. [TRUST_DIAL_welcome]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies perform their tasks truthfully. [TRUST_INT_truthful]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies have the features necessary to complete key tasks. [TRUST_COMP_features]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Generative AI technologies make it understandable how they produce the information they provide. [TRUST_TRANS_understandable]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[REGULATION]

**How much confidence, if any, do you have in each of the following to manage the development and use of generative AI in the best interests of the public?  
(randomized)**

	no confidence (1)	(2)	(3)	(4)	a great deal of confidence (5)	I don't know (99)
The government [REG_gov]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technology companies [REG_techcomp]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scientific organizations [REG_sciorg]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[If applicable, insert your supranational equivalence here; for us: European Union] [REG_supranational]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

Start of Block

[EXPERIENCE]

**Have you ever heard of, or used, the following technologies?  
(fixed order, NO randomization)**

	I am hearing about it here for the first time (1)	I heard the name, but never used it (2)	I used it once or twice (3)	I use it several times a month (4)	I use it several times a week (5)	I use it daily (6)	I don't know (99)
Google Search [EXP_google]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ChatGPT [EXP_chatgpt]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Microsoft Copilot in Bing (formerly Bing Chat) [EXP_bing]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Perplexity AI [EXP_perplex]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Google Gemini (formerly Google Bard) [EXP_bard]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AI image generators (e.g. DALL-E, Midjourney) [EXP_image]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smart personal assistants (e.g. Alexa, Siri, Google Assistant) [EXP_alex]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other AI technology (1): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[EXP_other1]							
Other AI technology (2): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[EXP_other2]							

[If necessary, expand this list to include the most important AI systems in your country. Please inform us about the technologies you are adding.]

End of Block

Start of Block

**[Filter: Only show [PAY] if in [EXPERIENCE], at least one GenAI technology [EXP\_chatgpt, EXP\_bing, EXP\_perplex, or EXP\_bard] is marked as “I use it several times a month (4)” OR “I use it several times a week (5), OR “I use it daily (6)”].**

[PAY]

**Do you pay a subscription fee to use generative AI technologies like ChatGPT or Google Gemini?**

- Yes, I currently pay a subscription fee (e.g., for ChatGPT Plus or Gemini Advanced) (1)
  - I paid a subscription fee in the past but not anymore (2)
  - No, I have only used free versions (3)
  - I don't know (99)
- 

**[Filter: Only show [PURPOSE] if in [EXPERIENCE], at least one GenAI technology [EXP\_chatgpt, EXP\_bing, EXP\_perplex, or EXP\_bard] is marked as “I use it several times a month (4)”, “I use it several times a week (5), or “I use it daily (6)”].**

[PURPOSE]

**Generative AI can be used for many different purposes. For what purposes do you use generative AI technologies like ChatGPT or Google Gemini in your daily life? Please select all that apply. (randomized) (multiple response option)**

- Creating AI-generated images, music, or other creative output (1)
- Assistance with language or writing (e.g., translating text, drafting content) (2)
- Seeking inspiration (e.g., generating ideas for cooking or travel) (3)
- Searching for knowledge and facts (e.g., answering questions on various topics) (4)
- Being a conversation partner (e.g., talking to a chatbot for enjoyment) (5)
- None of these. Instead, I use it for \_\_\_\_\_ (6)
- I don't know (99)

End of Block

---

Start of Block

**[Filter: In [USE\_ALL], only show the technologies marked as “I used it once or twice (3)” OR “I use it several times a month (4)” OR “I use it several times a week (5), OR “I use it daily (6)”].**

[USE\_ALL]

**In the following, we want to focus on the use of AI when searching for information about science. By science, we mean the understanding we have about the world from observation and testing, the study of nature, medicine, physics, economics, history, and psychology, among others. Searching for scientific information thus means looking for scientific knowledge, facts, or explanations to satisfy curiosity, gain a better understanding of concepts or phenomena, or make informed decisions.**

**Which of the following technologies do you use to search for information about science?**

**(fixed order, NO randomization) (multiple response option)**

**Please select all that apply.**

- Google Search (1)
- ChatGPT (2)
- Microsoft Copilot in Bing (formerly Bing Chat) (3)
- Perplexity AI (4)
- Google Gemini (formerly Google Bard) (5)
- Smart personal assistants (e.g. Alexa, Siri, Google Assistant) (6)
- None of these. Instead, I use \_\_\_\_\_ (7)

- Not applicable to me / I don't know (99)

End of Block

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Start of Block

**[Filter: Only show this block ([CONFIDENCE\_GOOGLE] to [CONTENT\_GOOGLE]) if "Google Search (1)" is marked in [USE\_ALL]]**

[CONFIDENCE\_GOOGLE]

**When using Google Search to look for information about science, how confident are you that you can find what you need?**

- Not at all confident (1)
- Slightly confident (2)
- Moderately confident (3)
- Very confident (4)
- Extremely confident (5)
- I don't know (99)

[USE\_GOOGLE]

**How often do you use Google Search to look for science information?**

- Never (1)
- Several times the year (2)
- Several times the month (3)
- Several times the week (4)
- Once or more per day (5)
- I don't know (99)

[LASTTIME\_GOOGLE]

**When was the last time you used Google Search to look for science information?**

- In the last 24 hours (1)
- In the last 3 days or so (2)
- In the last 7 days (a week) (3)
- In the last 30 days (a month) (4)
- More than 30 days ago (5)
- I don't know (99)

[CONTENT\_GOOGLE]

**Please think about the last time you used Google Search to look for information about science: How content were you with the science information that was found?**

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| not content at all (1)   | (2)                      | (3)                      | (4)                      | very content (5)         | I don't know (99)        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

End of Block

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Start of Block

**[Filter: Only show this block ([CONFIDENCE\_CHATGPT] to [CONTENT\_CHATGPT]) if “ChatGPT (2)” is marked in [USE\_ALL]]**

[CONFIDENCE\_CHATGPT]

**When using ChatGPT to look for information about science, how confident are you that you can find what you need?**

- Not at all confident (1)
- Slightly confident (2)
- Moderately confident (3)
- Very confident (4)
- Extremely confident (5)
- I don't know (99)

[USE\_CHATGPT]

**How often do you use ChatGPT to look for science information?**

- Never (1)
- Several times the year (2)
- Several times the month (3)
- Several times the week (4)
- Once or more per day (5)
- I don't know (99)

[LASTTIME\_CHATGPT]

**When was the last time you used ChatGPT to look for science information?**

- In the last 24 hours (1)
- In the last 3 days or so (2)
- In the last 7 days (a week) (3)
- In the last 30 days (a month) (4)
- More than 30 days ago (5)
- I don't know (99)

[CONTENT\_CHATGPT]

**Please think about the last time you used ChatGPT to look for information about science: How content were you with the science information that was found?**

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| not content at all (1)   | (2)                      | (3)                      | (4)                      | very content (5)         | I don't know (99)        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

End of Block

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Start of Block

**[Filter: Only show this block ([CONFIDENCE\_BING] to [CONTENT\_BING]) if “Copilot in Bing (formerly Bing Chat) (3)” is marked in [USE\_ALL]]**

[CONFIDENCE\_BING]

**When using Microsoft Copilot in Bing (formerly Bing Chat) to look for information about science, how confident are you that you can find what you need?**

- Not at all confident (1)

- Slightly confident (2)
- Moderately confident (3)
- Very confident (4)
- Extremely confident (5)
- I don't know (99)

[USE\_BING]

**How often do you use Microsoft Copilot in Bing (formerly Bing Chat) to look for science information?**

- Never (1)
- Several times the year (2)
- Several times the month (3)
- Several times the week (4)
- Once or more per day (5)
- I don't know (99)

[LASTTIME\_BING]

**When was the last time you used Microsoft Copilot in Bing (formerly Bing Chat) to look for science information?**

- In the last 24 hours (1)
- In the last 3 days or so (2)
- In the last 7 days (a week) (3)
- In the last 30 days (a month) (4)
- More than 30 days ago (5)
- I don't know (99)

[CONTENT\_BING]

**Please think about the last time you used Microsoft Copilot in Bing (formerly Bing Chat) to look for information about science: How content were you with the science information that was found?**

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| not content at all (1)   | (2)                      | (3)                      | (4)                      | very content (5)         | I don't know (99)        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

End of Block

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Start of Block

**[Filter: Only show this block ([CONFIDENCE\_BARD] to [CONTENT\_BARD]) if “Google Gemini (formerly Google Bard) (5)” is marked in [USE\_ALL]]**

[CONFIDENCE\_BARD]

**When using Google Gemini (formerly Google Bard) to look for information about science, how confident are you that you can find what you need?**

- Not at all confident (1)
- Slightly confident (2)
- Moderately confident (3)
- Very confident (4)
- Extremely confident (5)
- I don't know (99)

[USE\_BARD]

**How often do you use Google Gemini (formerly Google Bard) to look for science information?**

- Never (1)
- Several times the year (2)
- Several times the month (3)
- Several times the week (4)
- Once or more per day (5)
- I don't know (99)

[LASTTIME\_BARD]

**When was the last time you used Google Gemini (formerly Google Bard) to look for science information?**

- In the last 24 hours (1)
- In the last 3 days or so (2)
- In the last 7 days (a week) (3)
- In the last 30 days (a month) (4)
- More than 30 days ago (5)
- I don't know (99)

[CONTENT\_BARD]

**Please think about the last time you used Google Gemini (formerly Google Bard) to look for information about science: How content were you with the science information that was found?**

- |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| not content at all (1)   | (2)                      | (3)                      | (4)                      | very content (5)         | I don't know (99)        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

End of Block

Start of Block

**[Filter: Only show this block ([CONFIDENCE\_ALEXA] to [CONTENT\_ALEXA]) if “Smart personal assistants (e.g. Alexa, Siri, Google Assistant) (6)” is marked in [USE\_ALL]]**

[CONFIDENCE\_ALEXA]

**When using smart personal assistants (e.g. Alexa, Siri, Google Assistant) to look for information about science, how confident are you that you can find what you need?**

- Not at all confident (1)
- Slightly confident (2)
- Moderately confident (3)
- Very confident (4)
- Extremely confident (5)
- I don't know (99)

[USE\_ALEXA]

**How often do you use smart personal assistants (e.g. Alexa, Siri, Google Assistant) to look for science information?**

- Never (1)
- Several times the year (2)
- Several times the month (3)
- Several times the week (4)
- Once or more per day (5)

I don't know (99)

[LASTTIME\_ALEXA]

**When was the last time you used smart personal assistants (e.g. Alexa, Siri, Google Assistant) to look for science information?**

- In the last 24 hours (1)
- In the last 3 days or so (2)
- In the last 7 days (a week) (3)
- In the last 30 days (a month) (4)
- More than 30 days ago (5)
- I don't know (99)

[CONTENT\_ALEXA]

**Please think about the last time you used smart personal assistants (e.g. Alexa, Siri, Google Assistant) to look for information about science: How content were you with the science information that was found?**

not content at all (1)	(2)	(3)	(4)	very content (5)	I don't know (99)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

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Start of Block

**[Note: All following questions will be answered by all participants]**

[SCIENCENEWS1]

**You're almost finished! There are just a couple of short questions left.**

**How often do you encounter news stories about science and technology?**

(1) never	several times the year (2)	several times the month (3)	several times the week (4)	(5) once or more per day	I don't know (99)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[SCIENCENEWS2]

**How often do you encounter professional content about science and technology (e.g., scientific websites or blogs by scientists)?**

(1) never	several times the year (2)	several times the month (3)	several times the week (4)	(5) once or more per day	I don't know (99)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[SCIENCENEWS3]

**How often do you encounter user-generated content about science and technology (e.g. on YouTube or Instagram)?**

(1) never	several times the year (2)	several times the month (3)	several times the week (4)	(5) once or more per day	I don't know (99)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

End of Block

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Start of Block

[POL1 and POL2]

**Political orientations are often classified on a left-right spectrum or a liberal-conservative spectrum. Please indicate your political orientation.**

**[If these two scales will not work in your country, insert your country-specific scale(s)]**

- Strongly liberal (1)
- (2) (2)
- (3) (3)
- (4) (4)
- Strongly conservative (5)
- Prefer not to say (99)

**And how would you describe your political orientation here?**

- Strongly left-leaning (1)
- (2) (2)
- (3) (3)
- (4) (4)
- Strongly right-leaning (5)
- Prefer not to say (99)

[RELIGION]

**Please indicate to what extent you consider yourself religious.**

- Not religious at all (1)
- (2) (2)
- (3) (3)
- (4) (4)
- Very strongly religious (5)
- Prefer not to say (99)

[LIVING]

**Which of the following best describes the area you live in?**

- Rural (1)
- Urban (2)
- Prefer not to say (99)

End of Block

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Start of Block

**[Adapt to your appropriate country-specific context]**

Thank you for your participation in this survey.

Your responses have been recorded.

If you have questions, concerns, or complaints, please contact:

**[insert your country-specific contact details here]**