

DEEL 14

POTENTIAL AI ROADBLOCKS



Roadblocks

1. Computing power / cloud
2. Distrust
3. No/Limited AI Literacy
4. Data Privacy / Security
5. Data Bias
6. Risk
7. Data Scarcity



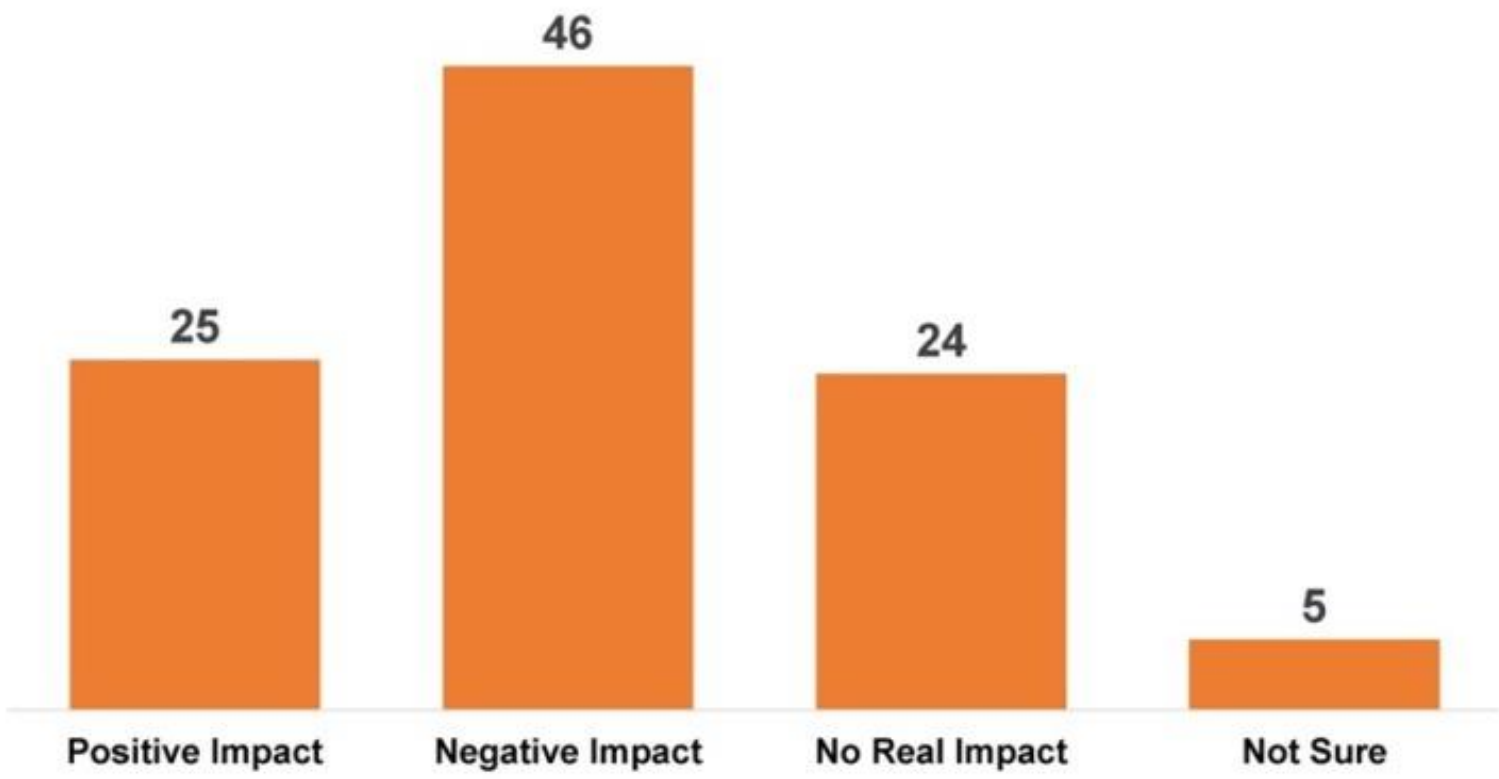
1. IT - Compute Power / Cloud





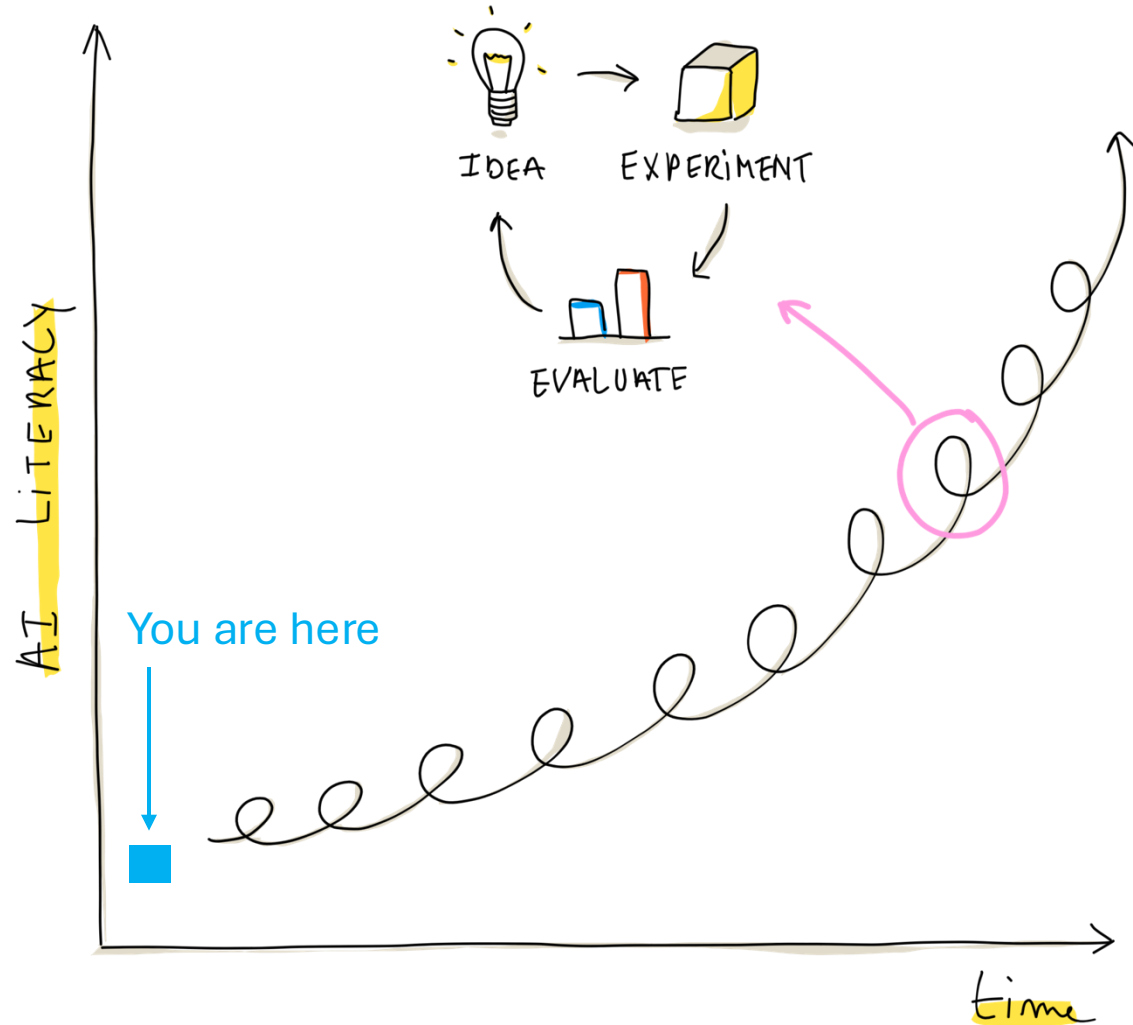
2. Distrust

In general, do you think new artificial intelligence technologies will have more of a positive impact or more of a negative impact on your life, or no real impact at all?



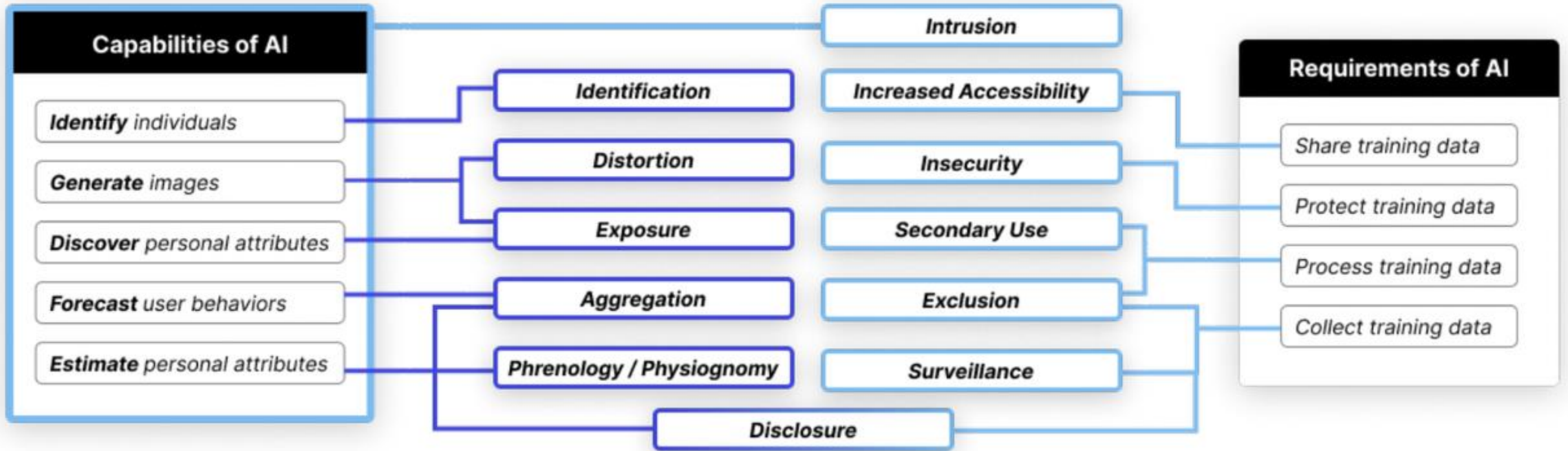
Source: Grinnell College National Poll--conducted by Selzer & Co., of 1,006 U.S. adults, October 2023

3. No/Limited AI Literacy





4. Data Privacy / Security





5. Data Bias

How AI systems amplify bias

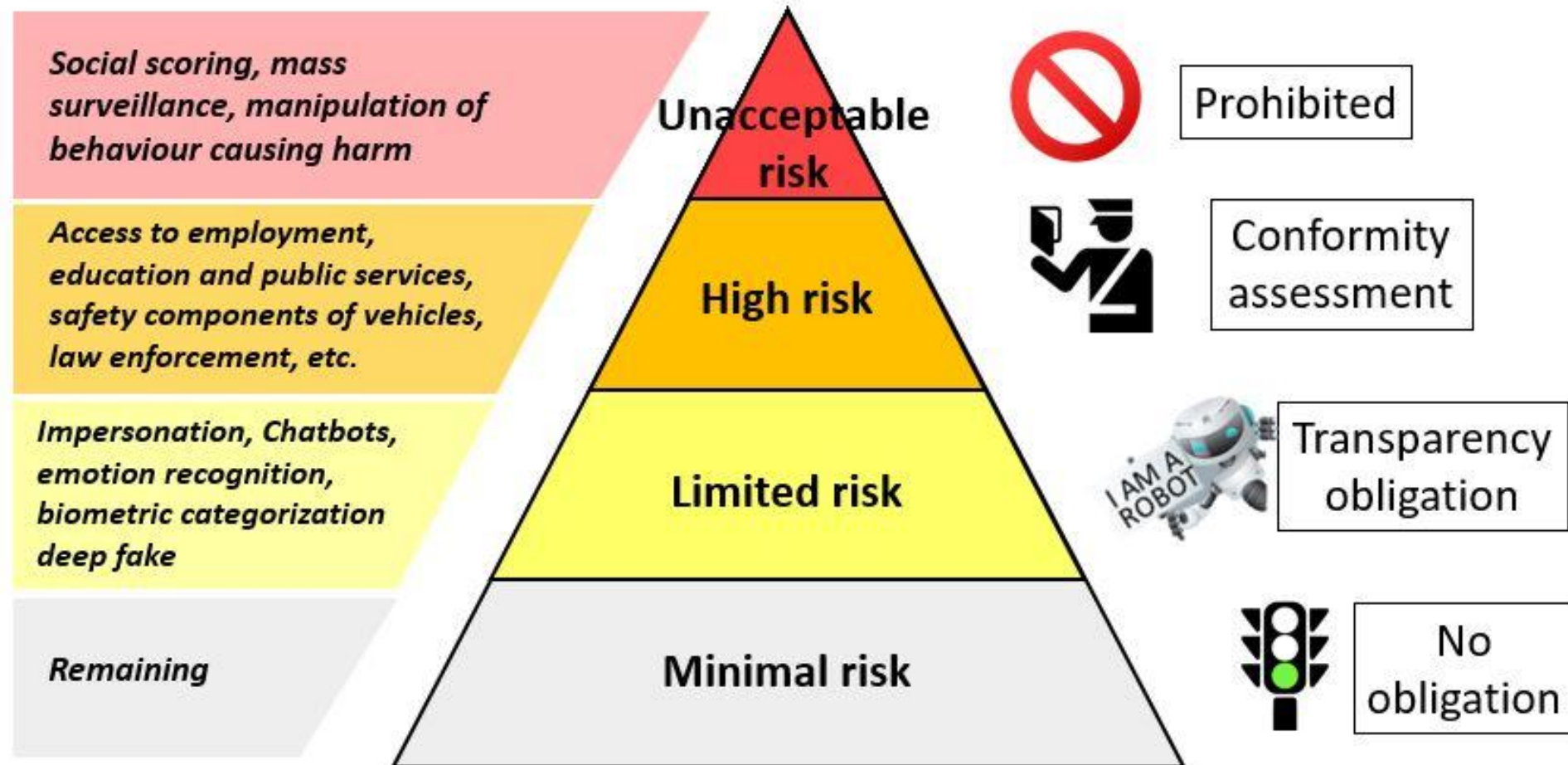
Image recognition systems that use biased machine learning data sets will inadvertently magnify that bias. Researchers are examining ways to reduce the effects.

					
COOKING	COOKING	COOKING	COOKING	COOKING	
ROLE	VALUE	ROLE	VALUE	ROLE	VALUE
AGENT	▶ WOMAN	AGENT	▶ WOMAN	AGENT	▶ MAN
FOOD	▶ PASTA	FOOD	▶ FRUIT	FOOD	▶ —
HEAT	▶ STOVE	HEAT	▶ —	HEAT	▶ STOVE
TOOL	▶ SPATULA	TOOL	▶ KNIFE	TOOL	▶ SPATULA
PLACE	▶ KITCHEN	PLACE	▶ KITCHEN	PLACE	▶ KITCHEN
AGENT	▶ WOMAN	AGENT	▶ WOMAN	AGENT	▶ MAN
FOOD	▶ VEGETABLES	FOOD	▶ MEAT	FOOD	▶ —
HEAT	▶ STOVE	HEAT	▶ GRILL	HEAT	▶ STOVE
TOOL	▶ TONGS	TOOL	▶ TONGS	TOOL	▶ SPATULA
PLACE	▶ KITCHEN	PLACE	▶ OUTSIDE	PLACE	▶ KITCHEN

In this example of gender bias, adapted from a report published by researchers from the University of Virginia and the University of Washington, a visual semantic role labeling system has learned to identify a person cooking as female, even when the image is male.

6. Risk

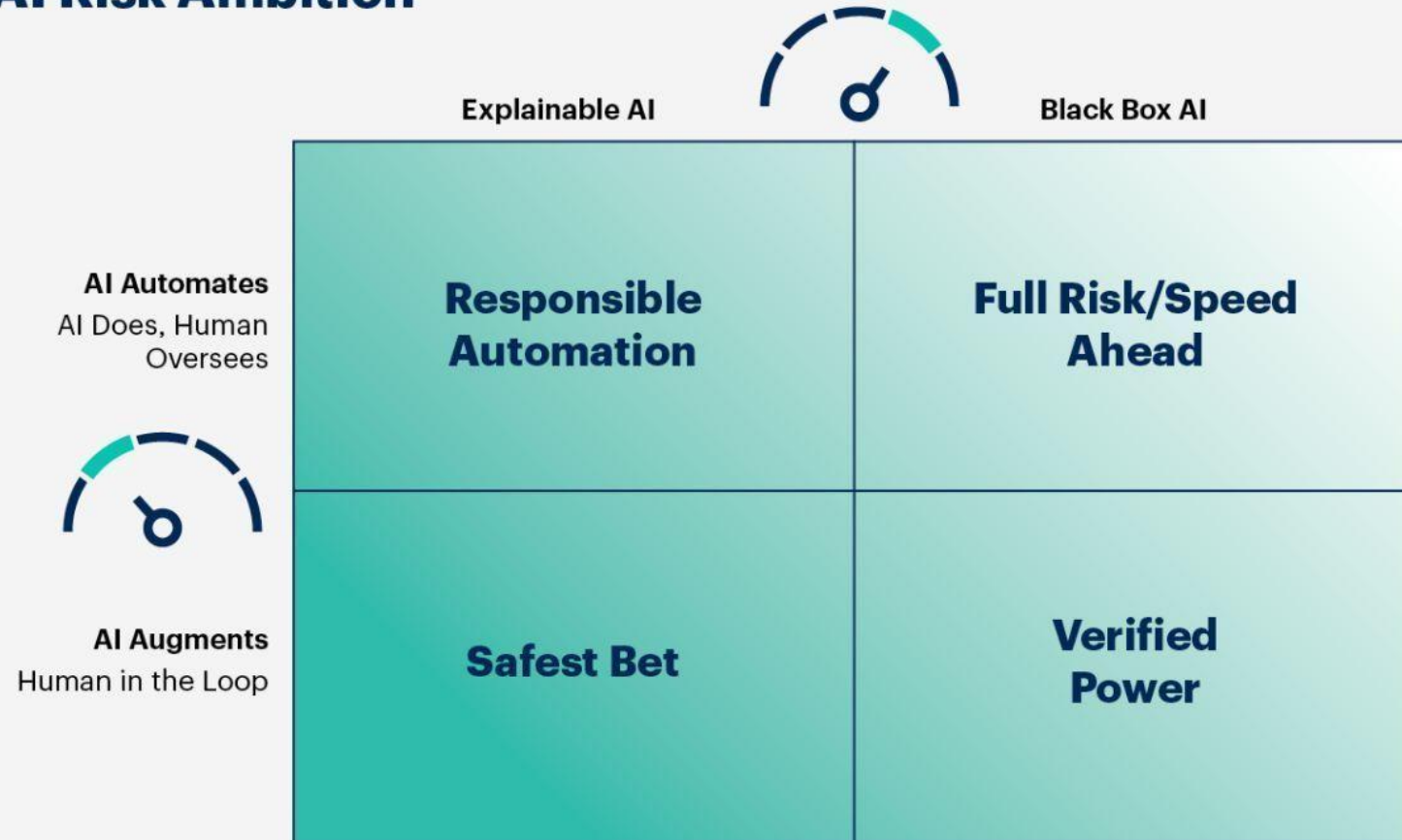
EU Artificial Intelligence Act: Risk levels





6. Risk

AI Risk Ambition



Source: Gartner
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Gartner



7. Data Scarcity

