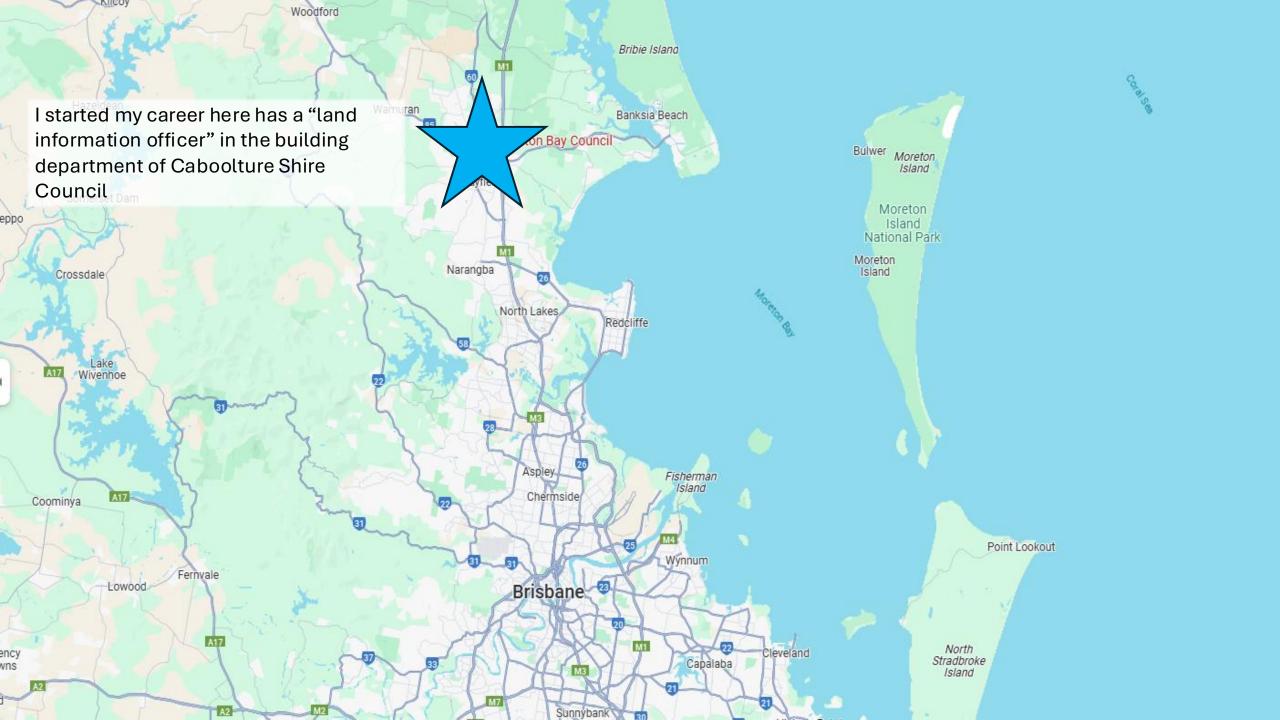
Why all the fuss? What's new?





```
if percent_slope > 35:
    approved = False
else:
    approved = True
```

```
if percent_slope > 35:
   approved = False
   condition = "None"
elif percent_slope > 25:
   approved = True
   condition = "Requires extensive geotechnical studies"
elif percent_slope > 15:
   approved = True
   condition = "Requires require special engineering and grading
permits"
else:
   approved = True
   condition = ""
```

```
if percent_slope > 35:
   approved = False
   condition = "None"
elif percent_slope > 25:
   approved = True
   condition = "Requires extensive geotechnical studies ... "
elif percent_slope > 15:
   approved = True
   condition = "Requires require special engineering and grading permits ..."
else:
   approved = True
   condition = ""
```

```
if percent_slope > 35:
   approved = False
   condition = "None"
elif percent_slope > 25:
   approved = True
   condition = "Requires extensive geotechnical studies"
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if percent_slope > 35:
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elif percent_slope > 15:
   approved = True
   condition = "Requires require special engineering and grading
permits"
else:
   approved = True
   condition = ""
```

Textual description

Planning zone

Slope steepness / geology

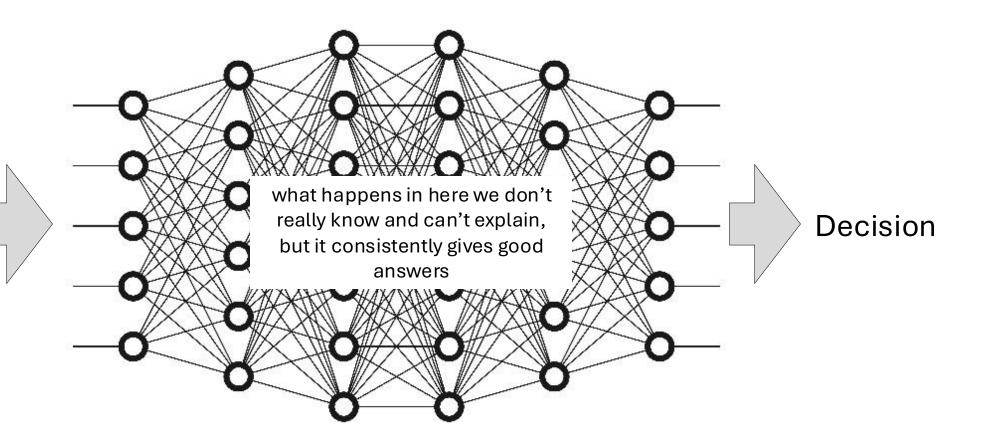
Bushfire/flood zone

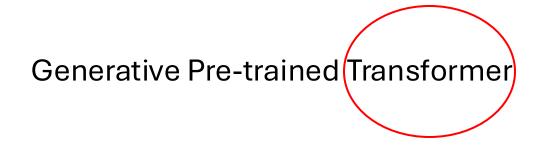
Heritage precinct

Building requirements/rules

Town planning rules

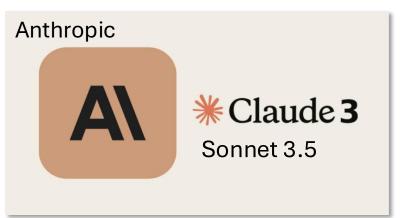
...





Vaswani *et al* (NIPS 2017) 129,753 citations and counting









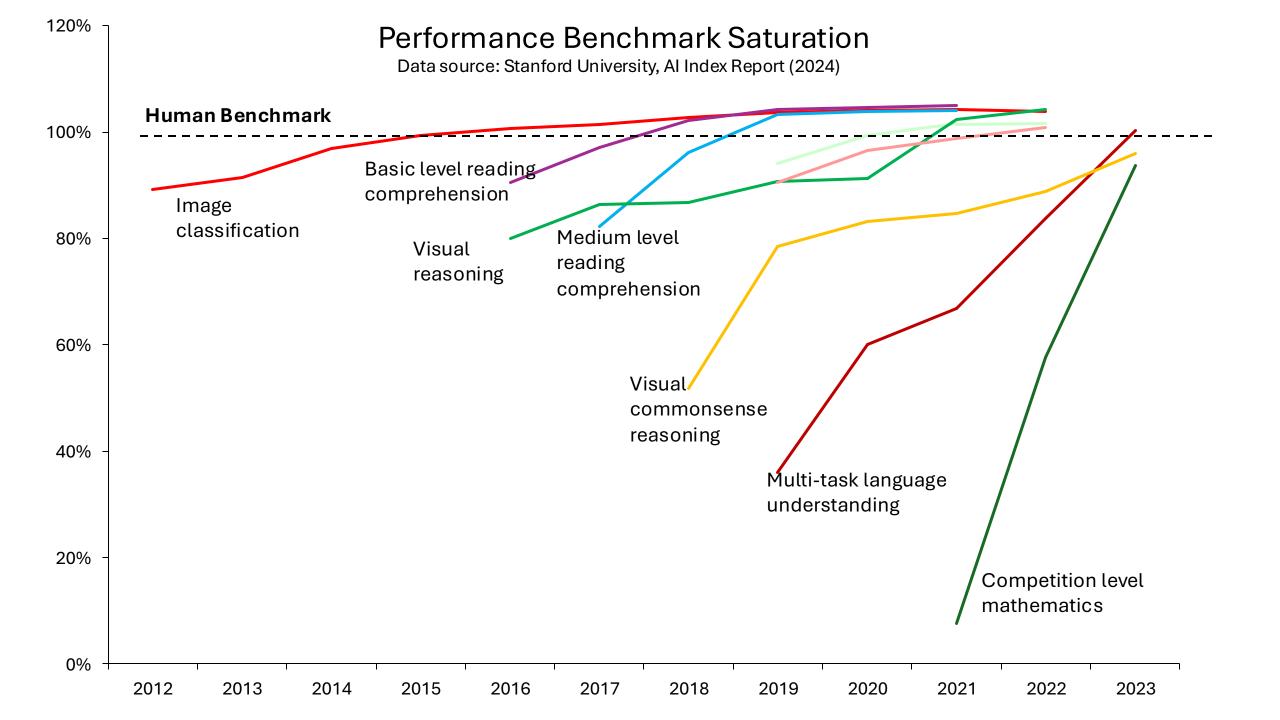


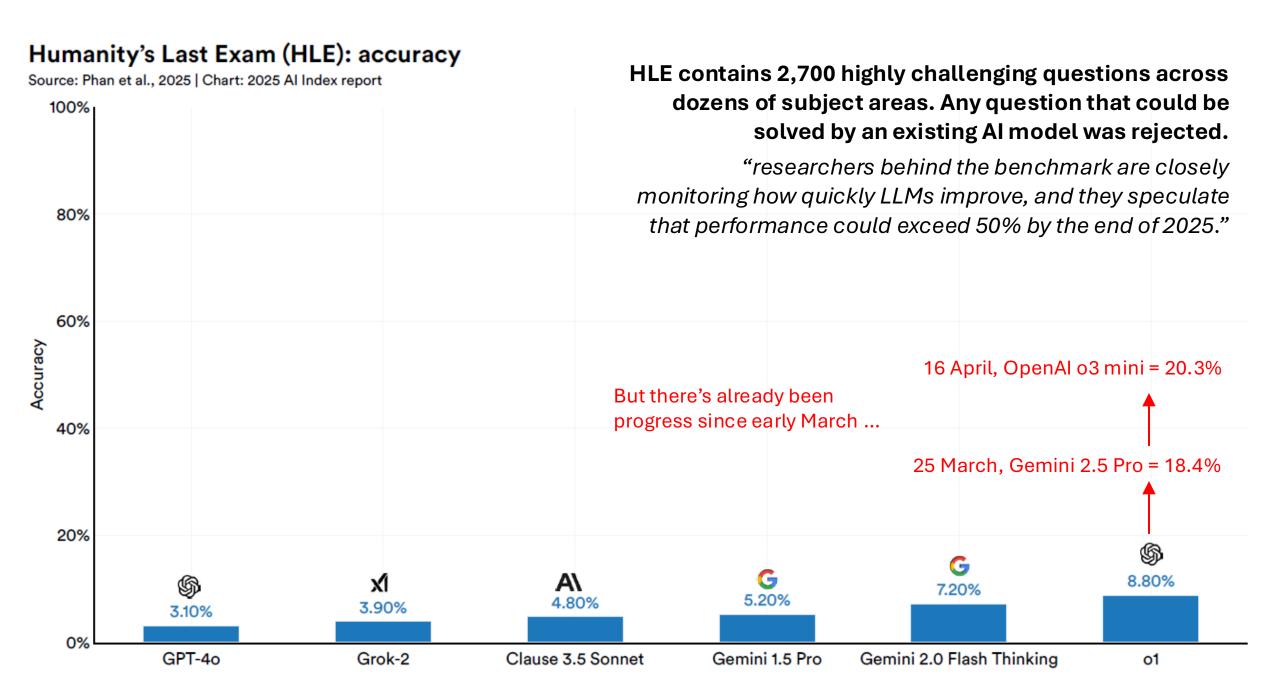












## Al is now better at weather forecasting than weather forecasters

GenCast by Google Deepmind outperforms the ensemble forecast system of the European Centre for Medium-Range (up to 15-day) Weather Forecasts. It did better predictions on 97.2% of 1,320 targets evaluated and better predicts extreme weather, tropical cyclone tracks and wind power.

Price et al. (2025) Nature volume 637, pages84–90



