



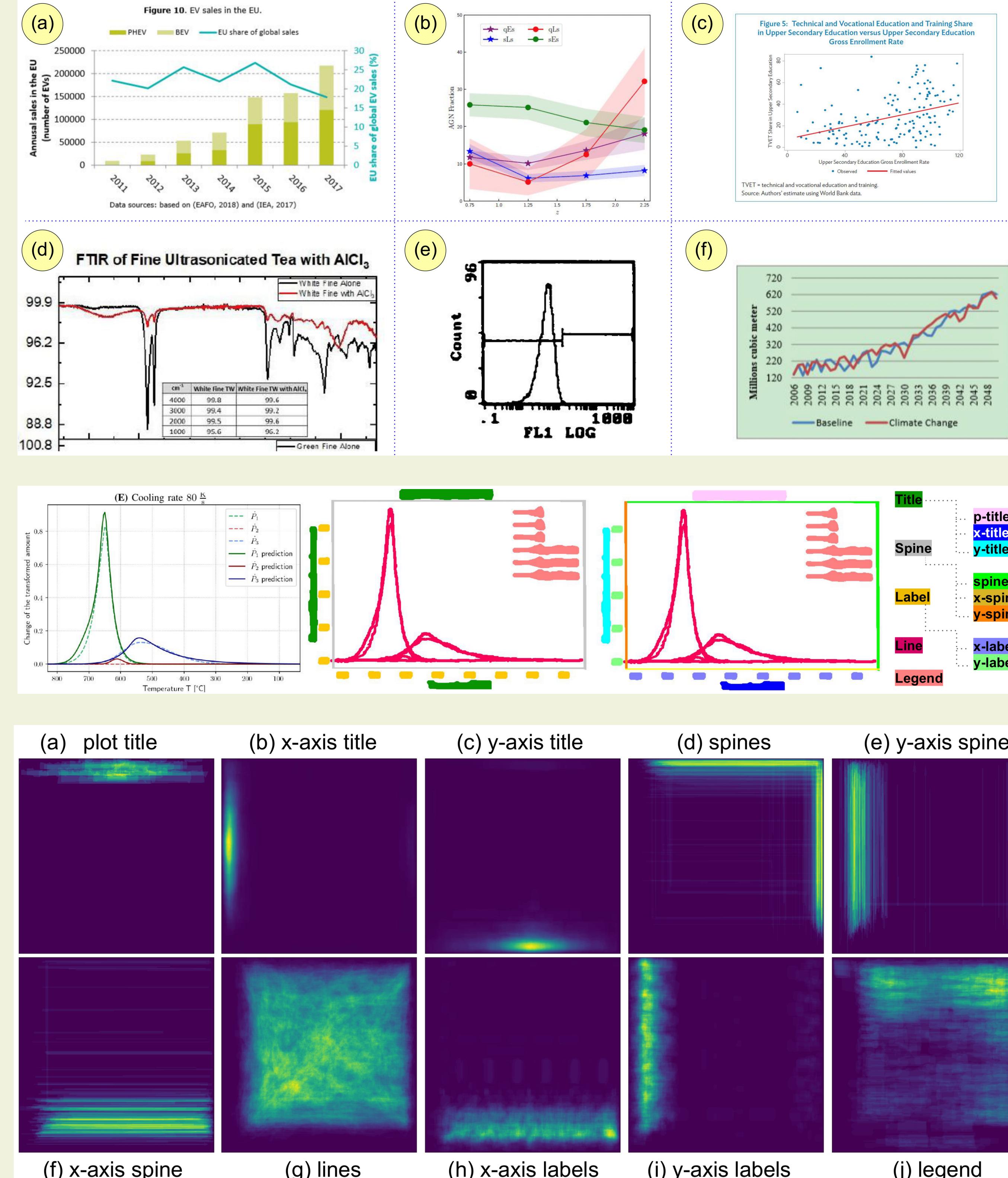
# Line Graphics Digitization: A Step Towards Full Automation

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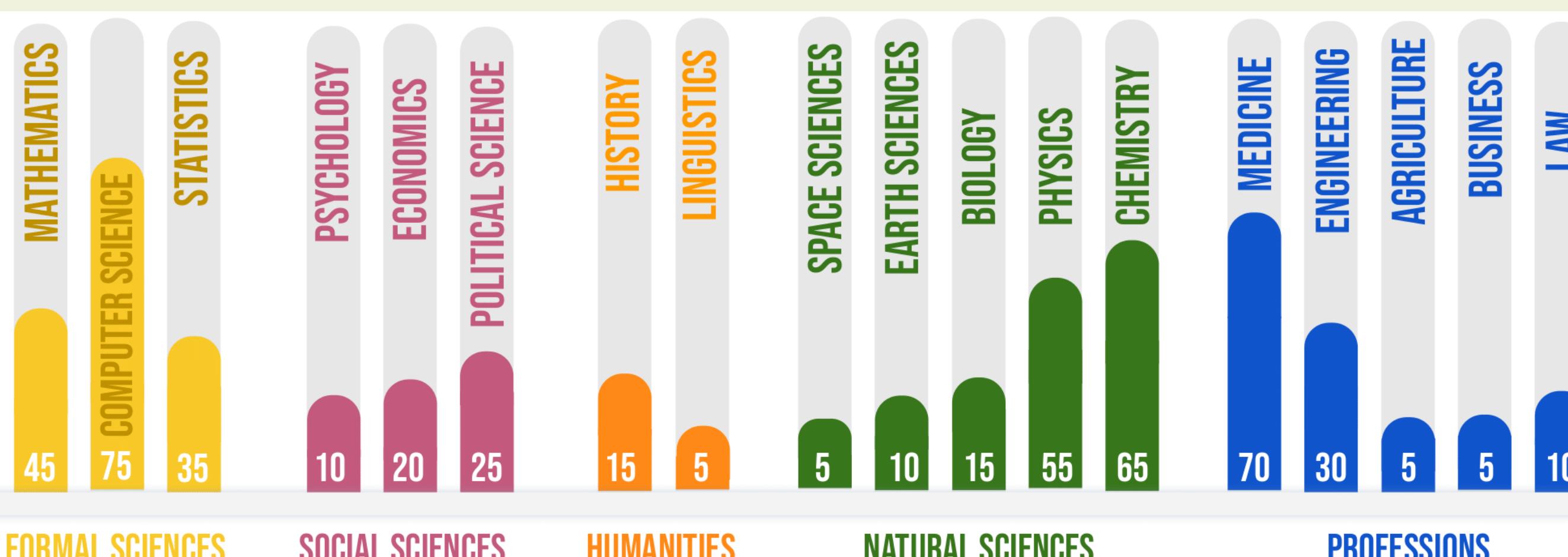
## Can we enable segmentation in the chart analysis domain?

- The answer: Yes! with our new **real** semantic and instance-level segmentation dataset. Includes **coarse and fine-grained classes**.



## Diverse Variations

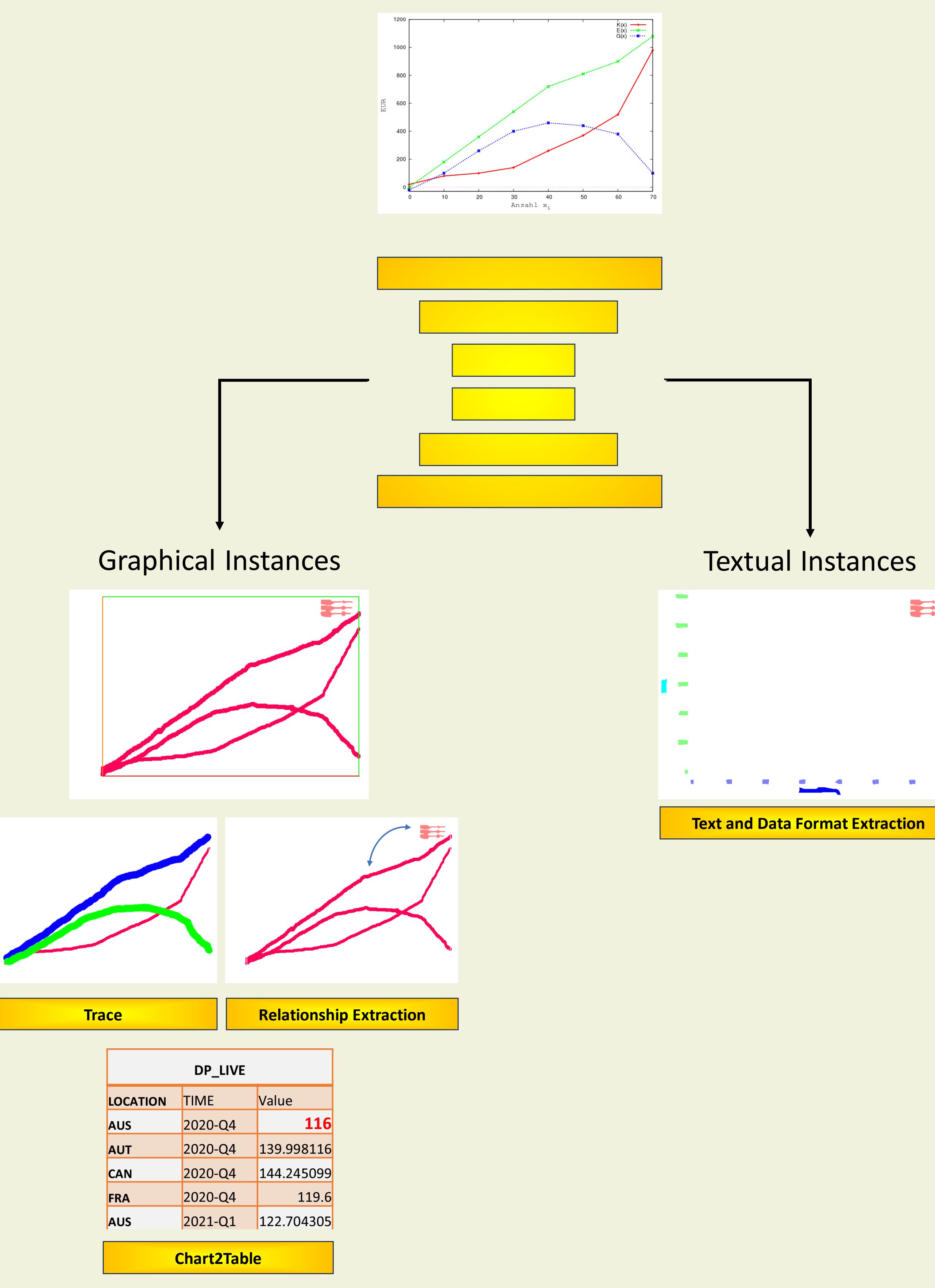
- ~1000 real charts
- Multi-Type charts.**
- Line charts, bar charts and scatter plots.
- Spanning varied fields



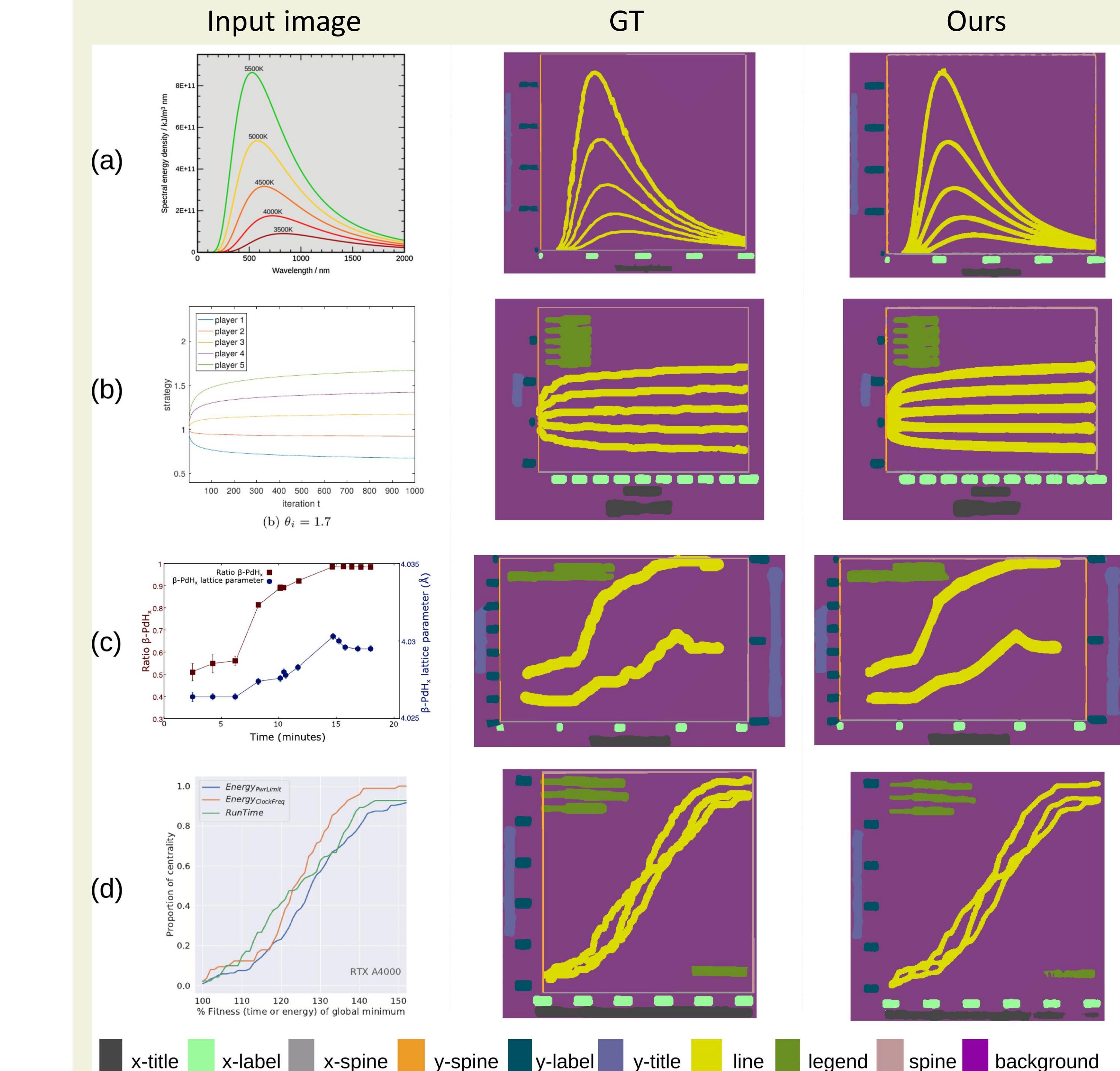
## Experiments

- 26 experiments with 7 SOTA semantic segmentation models.
- SegNeXt** is the best performing convolutional network architecture

## Dataset Insights



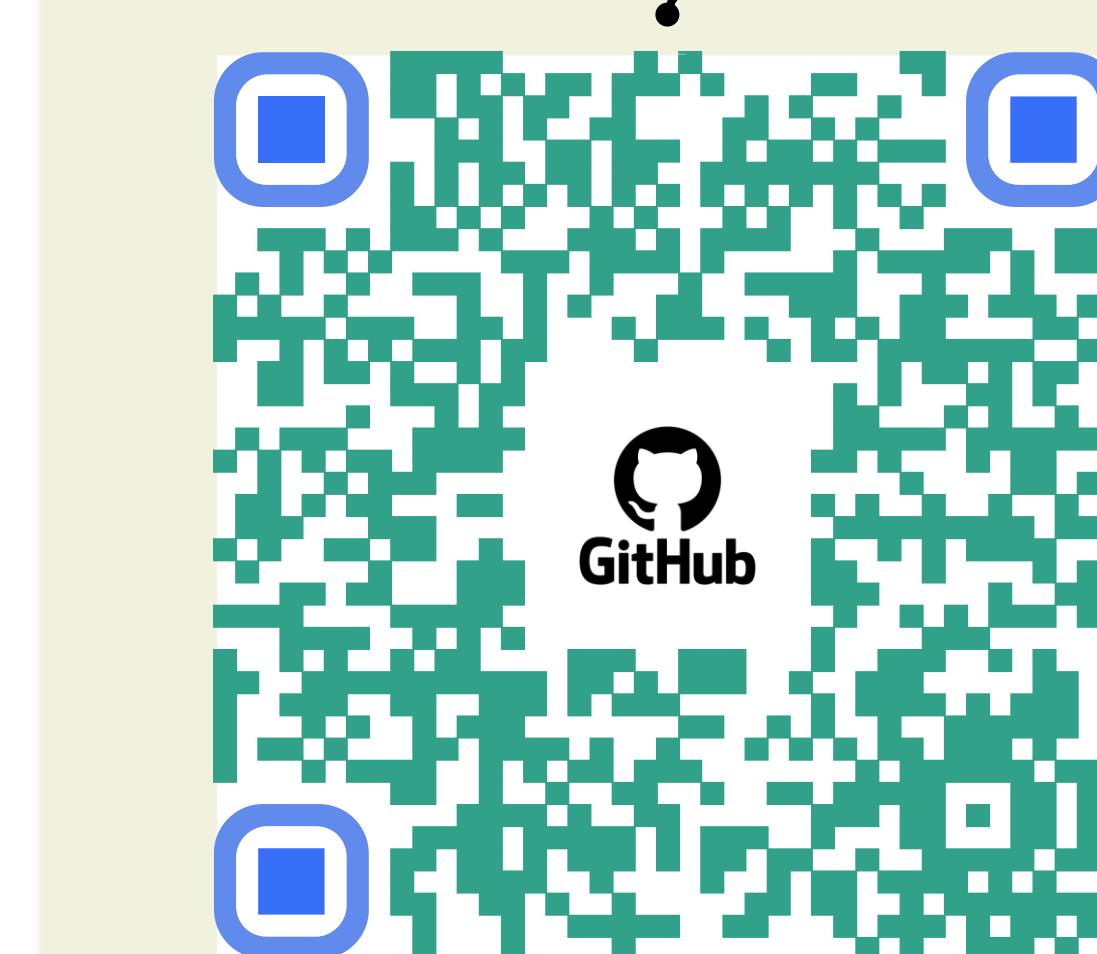
## Qualitative Evaluation



## Future work

- Intra-class relation extraction
- Line tracing

Our dataset & models are available now!



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