

# UNIVERSITY OF OSLO

How will AI influence law  
libraries and librarians in the  
coming future?

The 12th Nordic Law Libraries  
Conference

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Law Library



# Background

- University of Oslo, Law Library
  - Team LegalTech and AI
- Centre on experiential legal learning (CELL)
  - Legal Innovation Lab Oslo
  - The digital courtroom
- Partnership in experimenting with new (legal) technology
- Some numbers
  - UiO/The Law faculty: 4300 students
  - The Law Library: 12 employees, four involved with LegalTech/AI
  - CELL: 44-46 employees, administrative, students, teachers, pedagogical staff. Only a few full time (most 10-20% empl.)



# Law Library



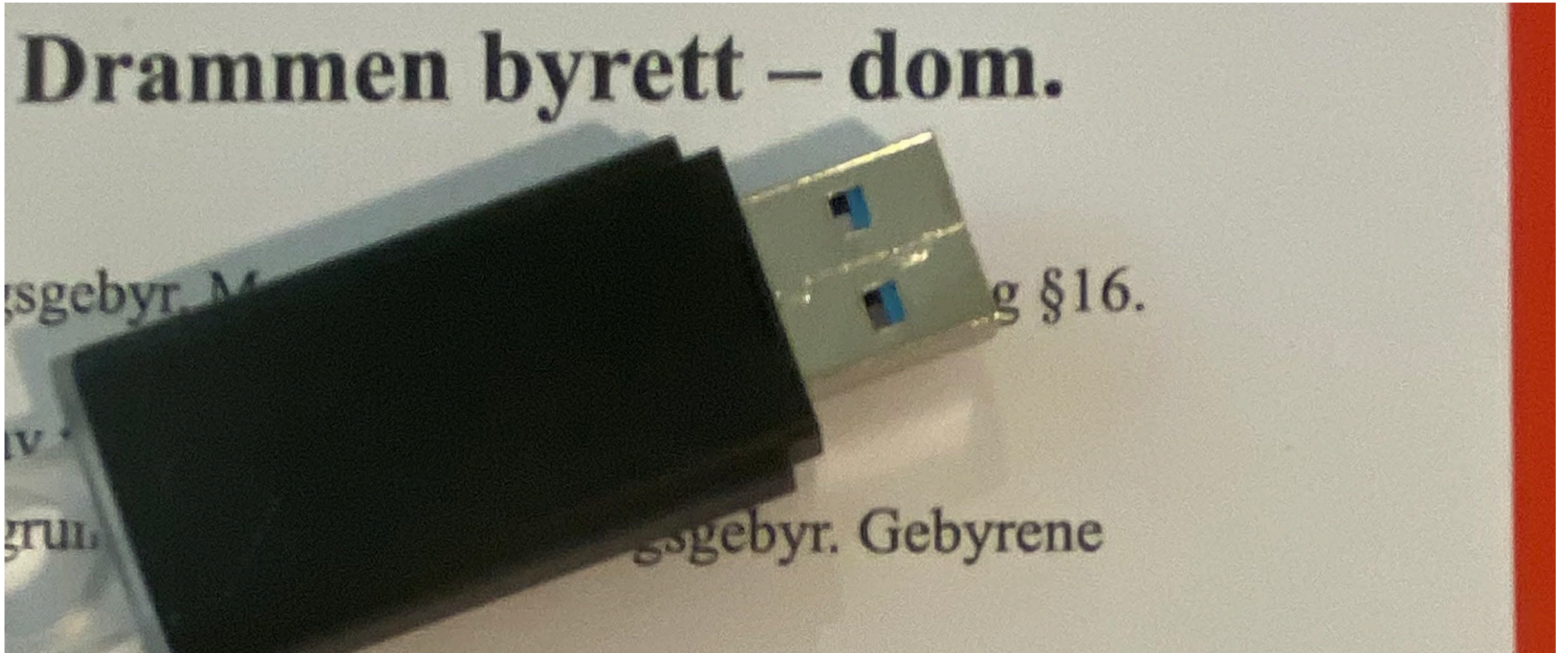


# CELL





# AI in practice



# Content

- The global AI landscape of LegalTech
- What is happening in the Nordic countries with LegalTech?
- Focus on some AI tools relevant for law libraries and key concepts in these technologies
- What is happening (with AI) in legal education - EdTech in law?
- How are libraries responding to the implementation of AI
- What skills (and competences) will law librarians need?

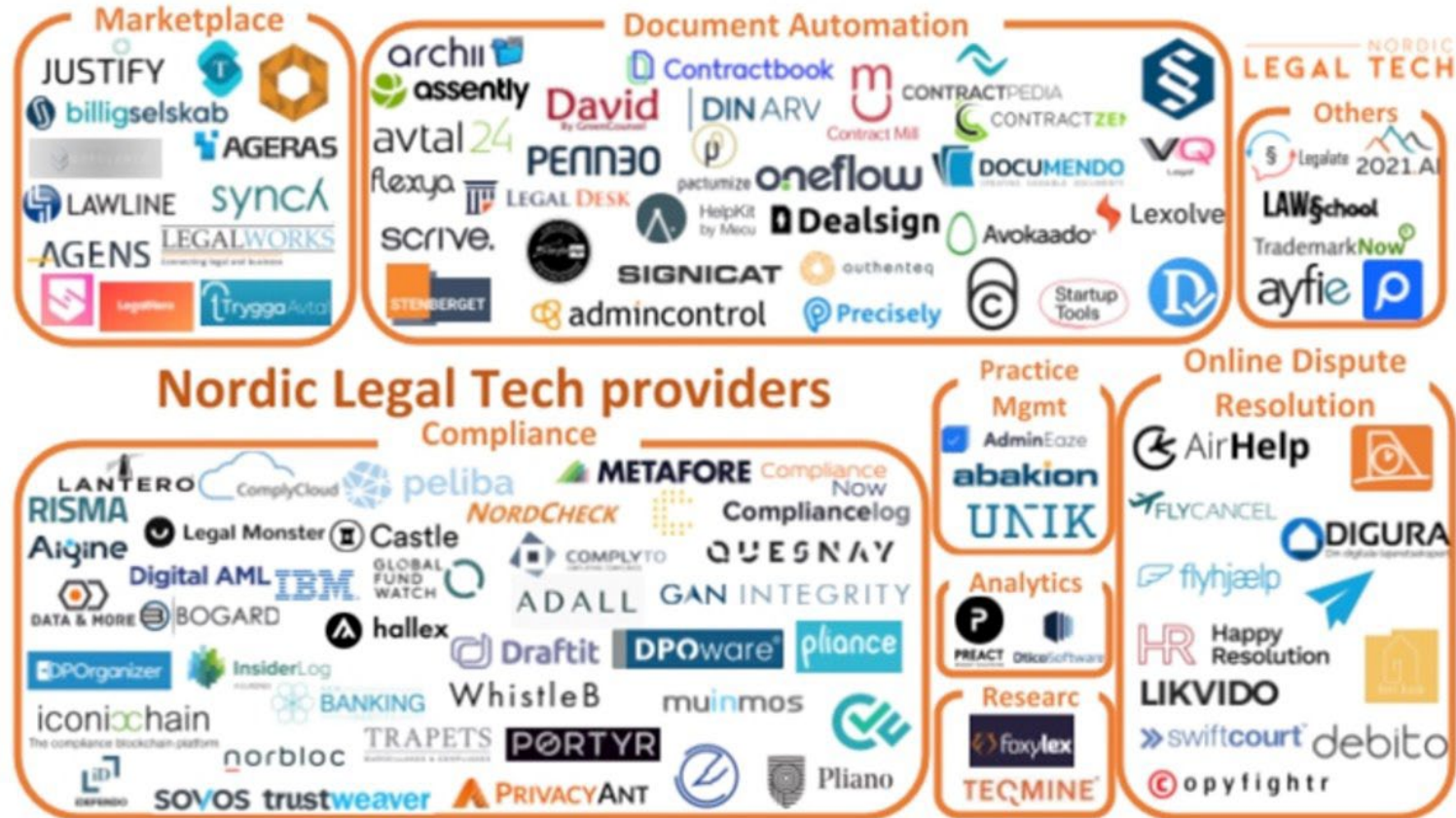
# The global AI landscape of LegalTech

- Research – search technology
- Predication – of judgements etc.
- Decision support – analyzing data - "will we win this case?", "how much will it cost?"
- Document automation
- Automating writing
- Recommendations, of legal sources and literature
- Due diligence
- Chatbots



# What is happening in the Nordic countries with LegalTech?

Nordic legal tech hub, <https://www.nordiclegaltech.org/ecosystem/>





# Examples: AI tools relevant for law libraries

And key concepts in some of them

- Iris AI, Connected papers, Open knowledge maps
- Lexis Advance, Westlaw Edge
- Ross
- Keenious
- Ponder (Disputas)
- Maybe (almost) all AI tools are relevant for law libraries?

# How are libraries responding to the implementation of AI?

- Artificial intelligence in the Library ("Kunstig intelligens i biblioteket») 2017-2018
  - University of Oslo Library
  - Financed by the National Library <https://www.ub.uio.no/om/prosjekter/avsluttet/kunstig-intelligens/>
  - Competence building
  - Cooperation with the IT-departement (University Center for Information Technology), other departments at UiO
  - Own project: Papyrus collection
  - Insight into different AI projects
    - Image recognition, from speech to text, JFK files/Microsoft
- AI Labs, like National Library of Norway AI Lab



# How are libraries responding to the implementation of AI?

- Institutional projects, teams, dedicated people
  - UiO: Digital scholarship center (DSC) <https://www.ub.uio.no/english/writing-publishing/dsc/>
  - UiO: A few dedicated people
  - UiO: The Law Library team
- Virak (Norwegian academic library meeting) – satellite meeting Friday June 10.
  - AI and digitalization
  - Tools, competencies, teaching information literacy and creating a network of experience sharing

# What is happening (with AI) in legal education?

The Oslo case. - And how the Library is involved

- Masters of law programme
  - JUS5671 – Legal Technology: Artificial Intelligence and Law
  - JUS5080 – Programming for Lawyers
  - JUS5690 – Robot Regulation
- Projects - CELL
  - LILO (Legal Innovation Lab Oslo)
  - The digital courtroom
    - Automated feedback on writing



# Skills ladder

	Advocacy & Negotiation	Legal Technology	Clinical Practice	Writing & Language
10th _____	Academic speech Thesis seminar	Digital mentoring Boot camp	Job applications	Academic Writing Writing seminar *
9th new courses	Social Change & Mediation	Programming	New Legal Clinics	Public Outreach
9th existing courses	Advocacy, Negotiations & Conflict Resolution	Legal Tech, Empirical Legal & Ethics and Technology	Legal Practice & Placements	Legal Drafting & Foreign Legal Languages
8th _____	Client relations Simulation	Tech Ethics, Basic empiricism Simulations	Practical ethics Simulation	Role & critical analysis Debate
7th _____	Advocacy roles Mock trial	Machine learning Due dilligence	Witnesses Mock trial	Personal style Mentorship
6th _____	Leadership Board meeting	Text analysis Computational task	Advisor, risk Board meeting	Source criticism English contract
5th _____	Negotiation Make contract	Blockchain literacy Smart contract	Representation Make contact	Group drafting Make contract
4th _____	Academic presentation Present essay	Descriptive statistics Essay prep	Fact construction Exercise	Academic analysis Essay *
3rd _____	Oral legal argument Moot Appeal *	Legal software advanced Seminar *	Basic judicial process Moot appeal *	Brief Writing Moot Appeal *
2nd _____	Oral legal analysis Present answer	Using legal databases Seminar *	Inter-cultural relations Client meeting	General legal argumentation Writing clinic *
1st _____	Verbal confidence Present case	Legal software literacy Seminar *	Ethics dilemmas Exercise	Basic legal analysis Writing clinic *

# JUS5671 Legal Technology: Artificial Intelligence and Law (LegalTech)

Bootcamp first year

- The University Library highly involved
- Python (carpentry method), design thinking, Artificial Intelligence
- Is it possible to teach students to understand practical AI fast?
- Hands on
- Microsoft: Cognitive search - JFK Files
  - "JFK Files takes complex files including photos, handwriting, government documents, and more - then uses Cognitive Search to extract information."
  - "Cognitive Search pulls information from a data source, and applies a set of cognitive skills to extract knowledge."
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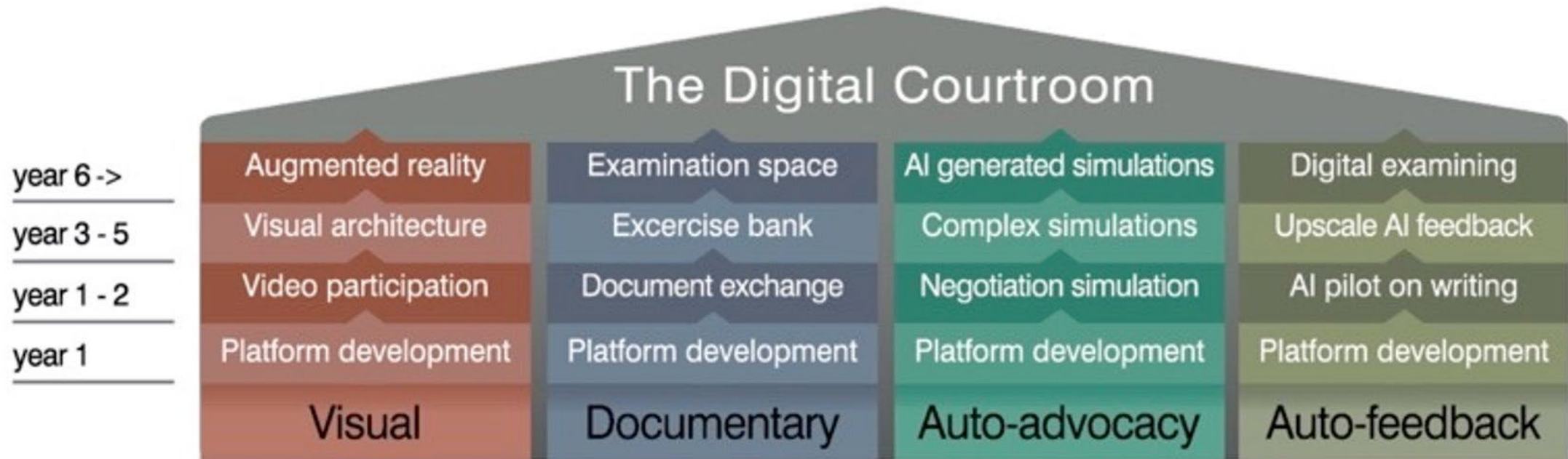


# JUS5671 Legal Technology: Artificial Intelligence and Law

## JUS5080 – Programming for Lawyers

- LegalTech: Colleagues from The Law Library is now involved in the entire course and in charge of the bootcamp
  - Student projects we learn from
  - We build competence
- Programming for lawyers: Colleagues from The Law Library in charge of the course
  - Still a challenge: How to make students understand machine learning/artificial intelligence in practice?
  - What skills do the library build and learn from?
  - How to take this into the library services, teaching and learning?

# The digital courtroom





# Some examples of hands on projects

## Involving the Library

- Automated writing feedback in Norwegian legal writing
- From speech to text on legal terminology - creating a high quality legal language database
- Sakulator (research project)
  - "A prediction model based on a machine learning algorithm"
- Interesting external projects
  - Disputas
  - Keenious

# Data

## Challenges

- Who will provide data when needed? (vs. research data)
- The role of the Law Library
  - Active part?
  - Search and find?
  - Intermediator?
  - ?

# What skills (and competences) will law librarians need?

- Search technology, technology behind tools?
- Know of and how to use specific tools?
- Privacy, GDPR?
- Copyright?
- How to find/buy data, datasets?
- Curation of data?
- Data management; store data, metadata etc.

# Take home

How will AI influence law libraries and librarians in the coming future?

- Depending on what role we want to play?
- Active part?
  - Innovative
  - Partner
- Competent part, advicer, support?
- Teacher?
- More?