



**TAL
TECH**

**BARRIERS OF THE LEGALTECH
MINDED EDUCATION:
WHY MOST OF THE LAW SCHOOLS ARE
AFRAID OF CHANGES?**

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TalTech Law School

**TALLINN UNIVERSITY
OF TECHNOLOGY**

Roadmap for Today



Obstacles for Legal Tech Implementation

Bespoke Solutions, Off-the-Shelf Solutions, Partnership Model, Legal Tech Gone Wrong, ALSPs, Unauthorized Practice of Law, White Labelling



Legal Tech Around the World

Legal Tech Market Trends, Legal Origins and Innovation, Legal Tech Implementation



What is LegalTech?

LegalTech vs. RegTech, Types of Legal Tech Tools,



Adaptive Professionalism

Critical Digital Literacy, User-Centric Approach, Interdisciplinary Collaboration



Recommendations for Future

Self-Regulated Learning, Legal Tech Courses Development, Professional Identity Formation



Role of Law Schools

Are Universities Doing Enough? Who Decides on the Curricula? Factors Influencing Legal Tech Implementation



PAST, PRESENT & FUTURE

“Tomorrow’s legal world, as predicted and described here, bears little resemblance to that of the past.”

- Richard Susskind, *Tomorrow’s Lawyers*
(Susskind, 2013)

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Ireland, C., & Hockley, R. (2020)



LEGAL TECH VS. REGTECH

Legal
Tech

- Assists or replaces professional legal service providers
- Efficiency, accuracy and accessibility of legal services

RegTech

- Help organisations to meet regulatory requirements and compliance
- Regulatory oversight and adherence but not legal service delivery

LEGAL TECHNOLOGY TOOLS

Legal professionals have used billing and research tools the most

Use of legal technology tools by legal professionals in 2022



Statista. (n.d.).



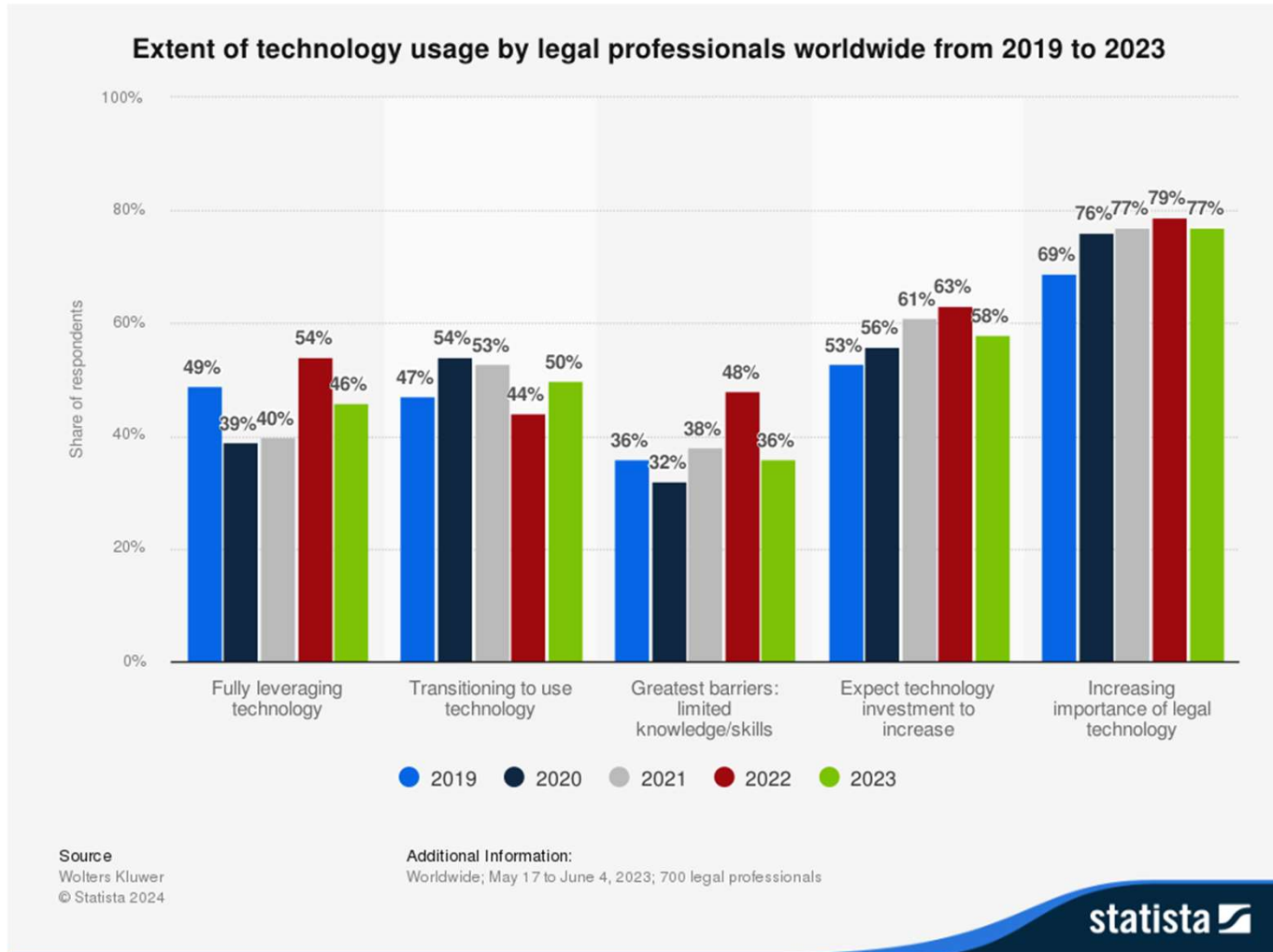
Legal Tech Around the World

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LEGAL TECHNOLOGY USAGE



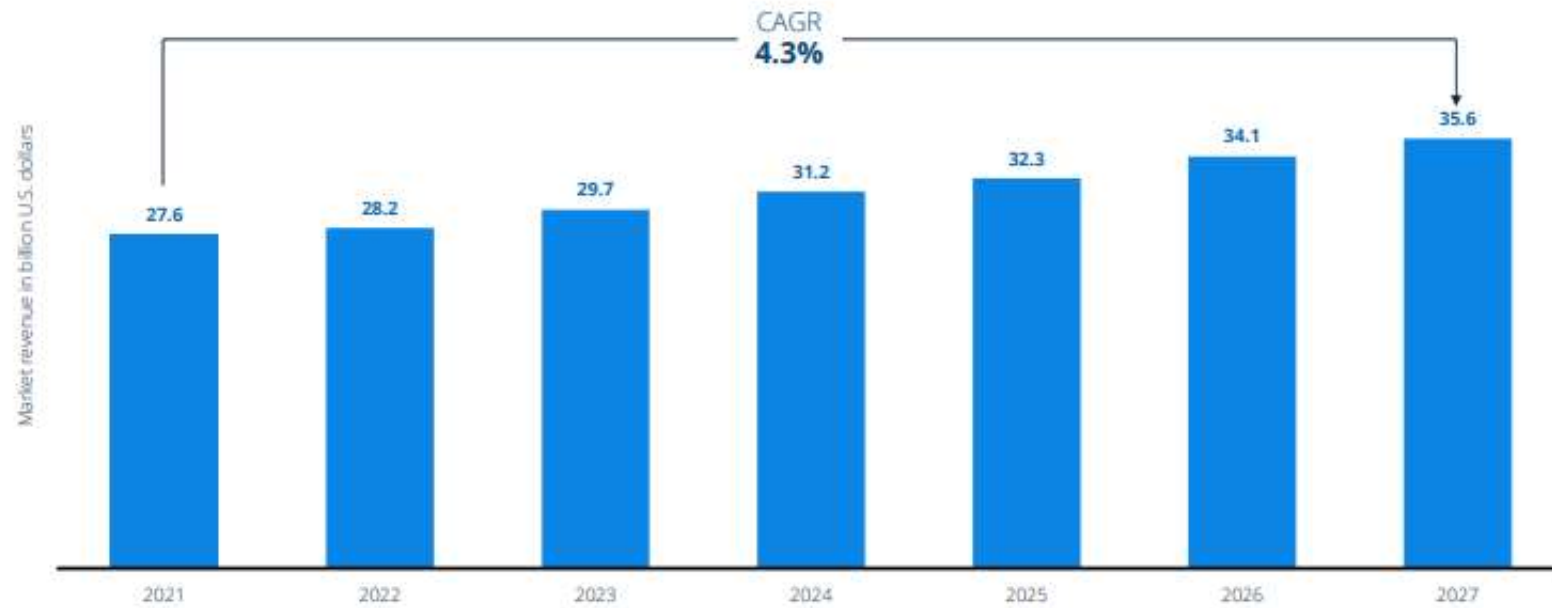
Statista. (2024).



LEGAL TECHNOLOGY MARKET

The legal tech market is set to grow further in the coming years

Legal tech market revenue worldwide from 2021 to 2027



Statista. (n.d.).

6 Note(s): Worldwide; 2021 to 2027; forecast data for 2022 to 2027
Source(s): Statista: [ID 1155852](#)

LEGAL TECH MARKET GROWTH

North America projected to lead the way in terms of revenue, although the fastest growth is expected in Europe

Legal tech market revenue from 2021 to 2027, by region



Legal innovation in Europe

The European region is set to experience the fastest legal tech market revenue growth in the coming years, growing at a CAGR of 5 percent through to 2027, compared to 4.6 percent in North America.

Barcelona is a notable city in the European region for legal innovation. Considered the "European Silicon Valley," Barcelona is favored for its international business environment and pool of legal talent. The city is also host to the Global LegalTech Hub, a meeting point for law firms, legal tech startups, and universities to explore the potential of technology solutions in legal services.



Statista. (n.d.).

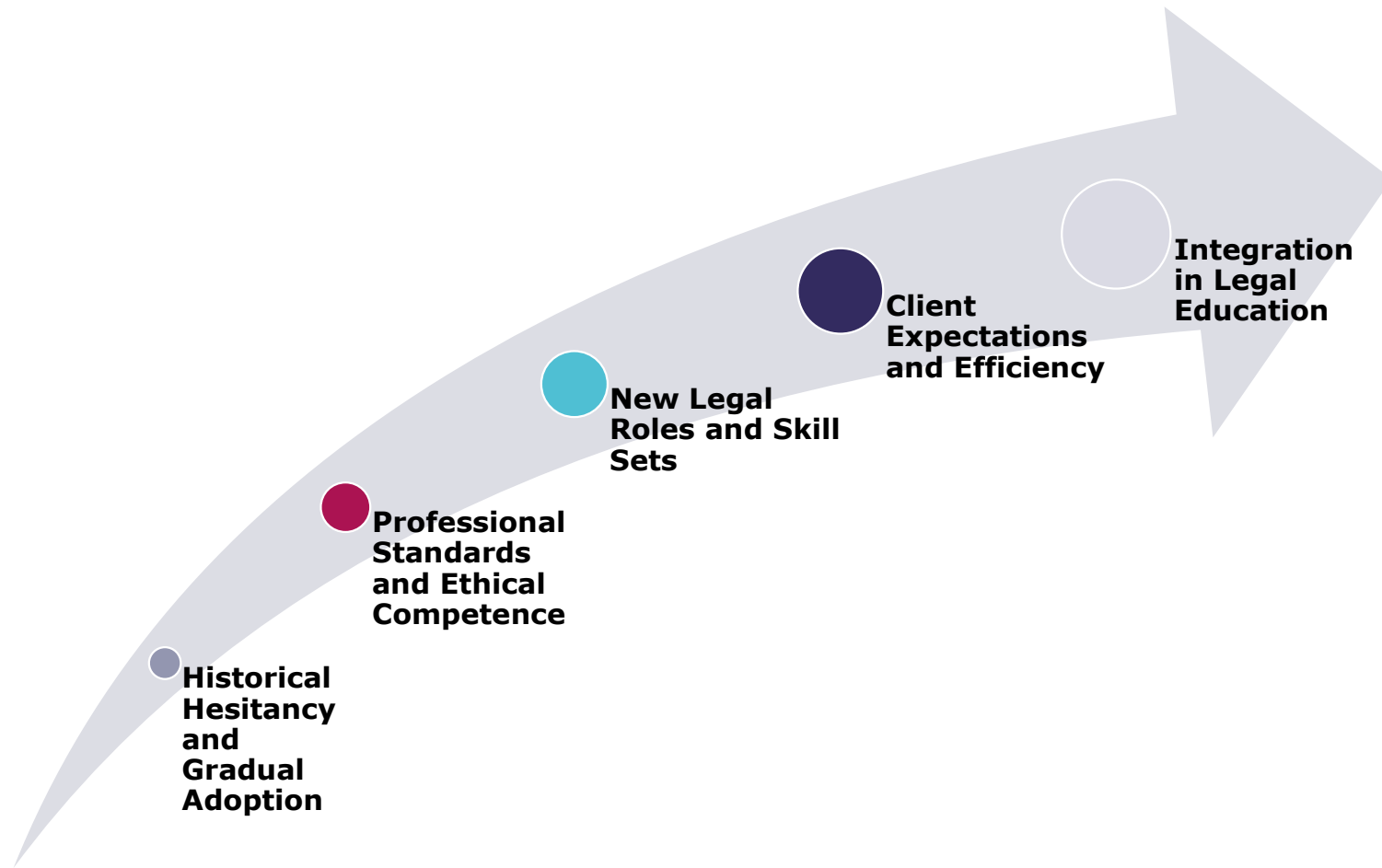
Note(s): Worldwide; 2021 to 2027; forecast data for 2022 to 2027
Source(s): Statista; [DOI: 10.15388/20155665](#)

Source(s): Bdo

WHY LEGAL TECH IMPLEMENTATION IS TOPICAL

Increasing dependency on technology	UK government's £1 billion investment in integrating technology into the justice system
Pandemic-driven acceleration	Remote courts and online services necessitating tech training for legal professionals
Evolving legal profession expectations	23% of US law schools integrated legal tech courses by 2016, with UK law firms investing heavily in AI and blockchain
Creation of legal innovation labs	US establishing 15 such labs by 2015 to allow students to work on technology-based solutions for legal issues / Only 8% of UK law schools currently offering practical legal tech modules
Skills for future proofing careers	Automation is projected to impact up to 40% of legal jobs

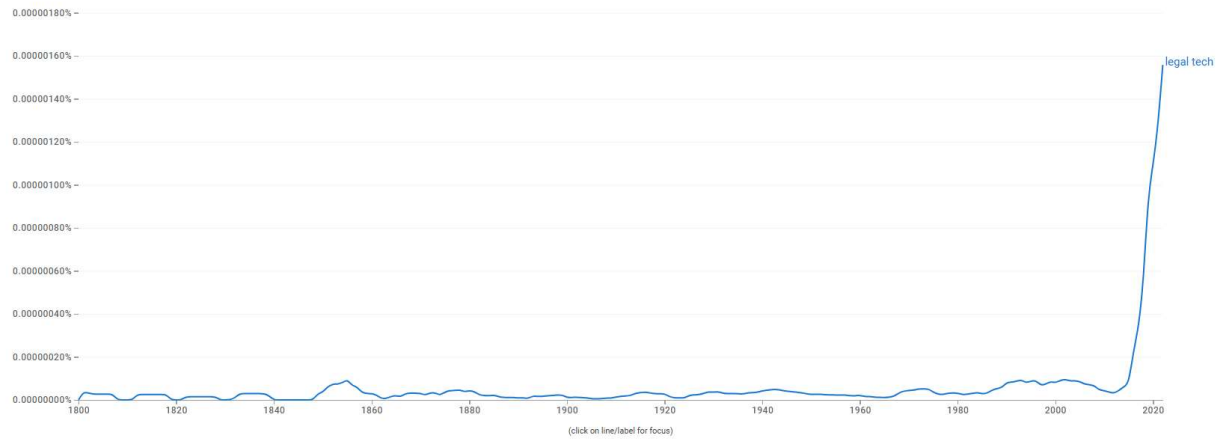
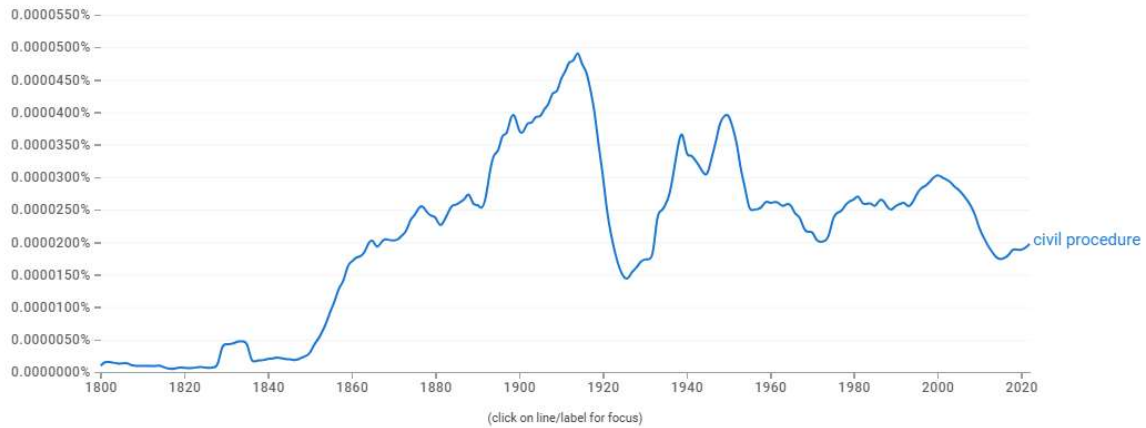
GRADUAL SHIFT IN LEGAL TECH IMPLEMENTATION IN THE LEGAL FIELD



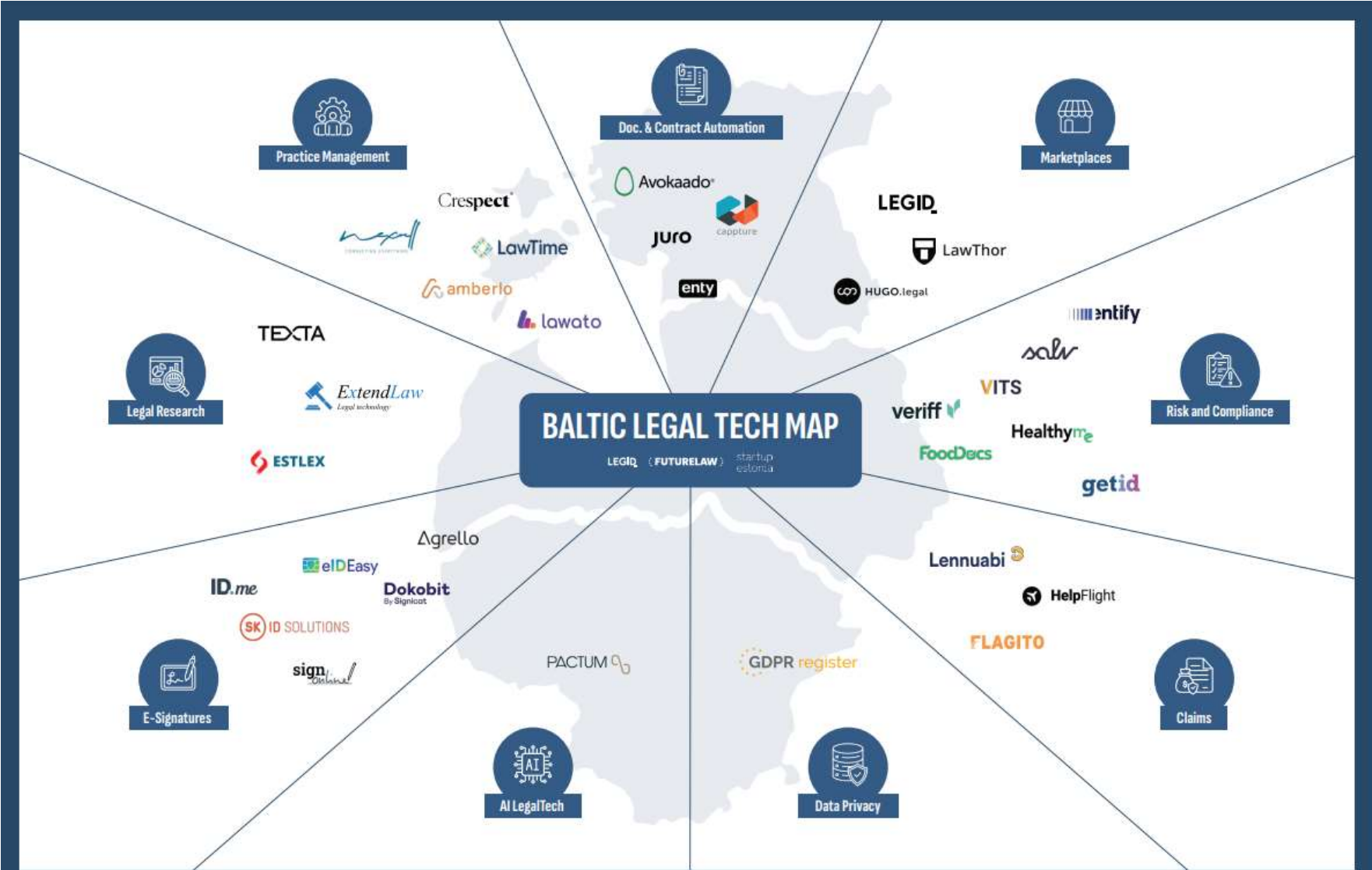
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O'Leary, D. L. (2020).

GOOGLE BOOKS NGRAM VIEWER – CIVIL PROCEDURE VS. LEGAL TECH



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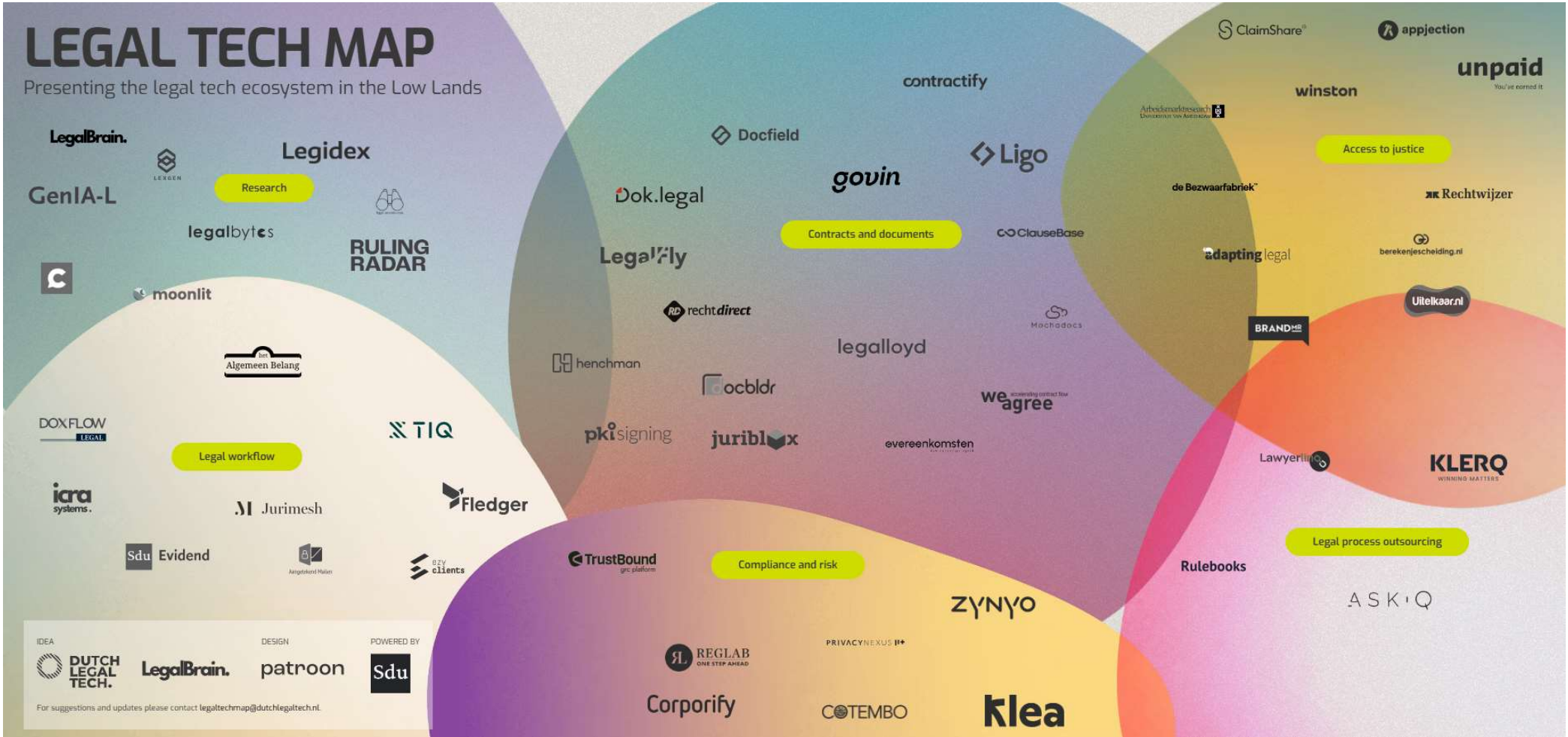
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Last updated: August 2024



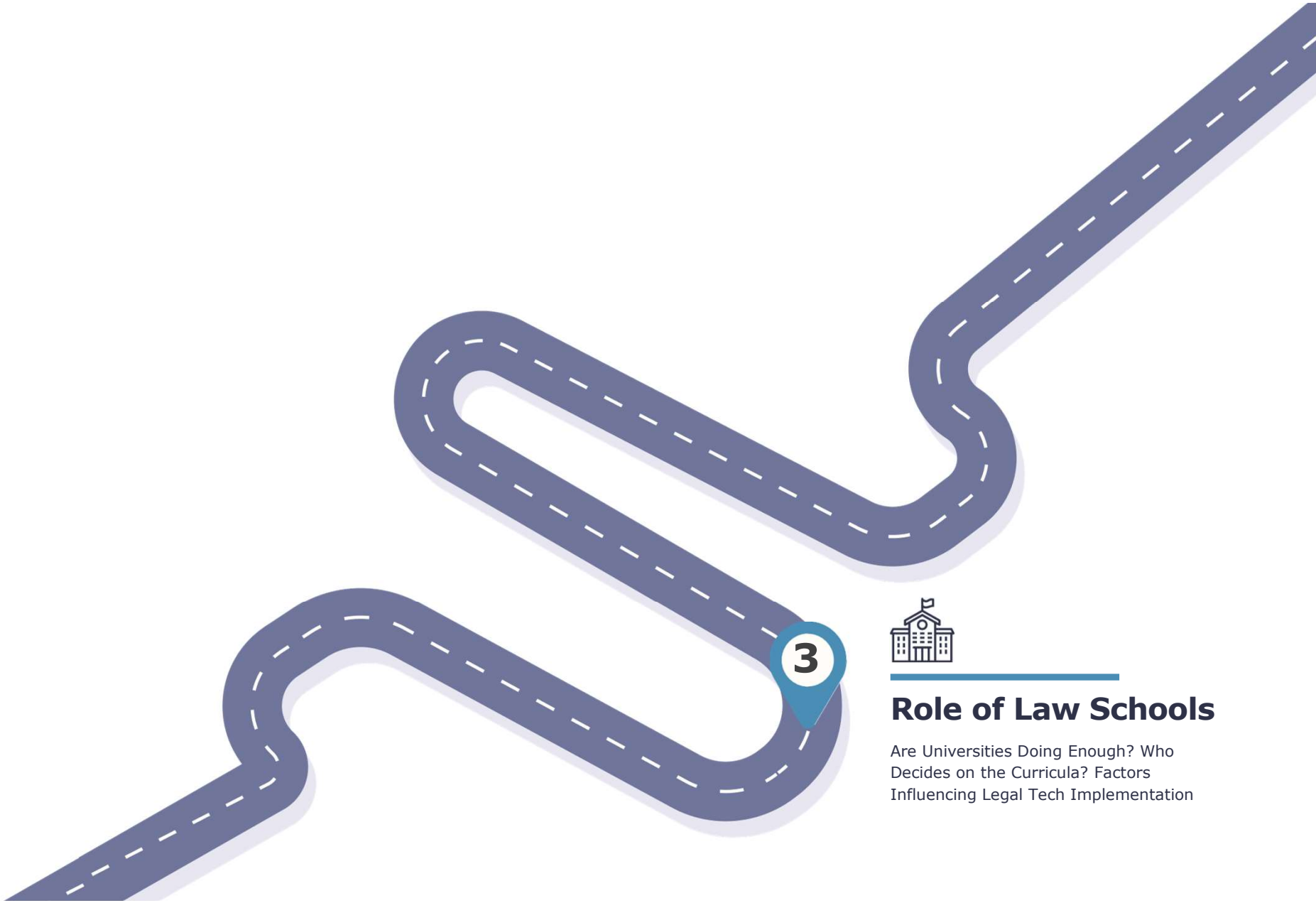
LEGAL TECH MAP

Presenting the legal tech ecosystem in the Low Lands



IDEA: DUTCH LEGAL TECH. DESIGN: LegalBrain. patroon. POWERED BY: Sdu

For suggestions and updates please contact legattechmap@dutchlegaltech.nl



Role of Law Schools

Are Universities Doing Enough? Who Decides on the Curricula? Factors Influencing Legal Tech Implementation

ARE UNIVERSITIES DOING ENOUGH?

- The question remains open as to whether and how universities should prepare law students for **technology's role in legal practice**.
- There is an assumption that universities are not currently doing enough to **incorporate LegalTech into their curricula**, reflecting **a lack of proactive adaptation** to industry needs.
- While there is a growing market for hybrid roles like "Legal Engineer," **universities face challenges in equipping students** with both legal and technical skills, often due to limited resources and interdisciplinary teaching difficulties.
- This gap underscores the need for courses that teach essential skills, such as decision mapping and computational logic, **as practical ways to bridge the divide between legal education and technological proficiency**.



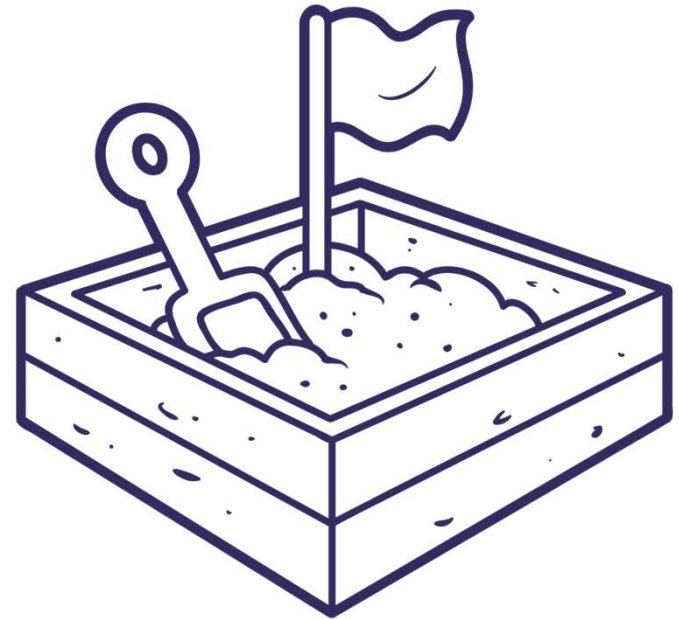
LAW SCHOOLS IN MANY FORMS



**TRADE
SCHOOL**



**LIBERALIST
GREENHOUSE**



**ENTREPRENEURIAL
SANDBOX**

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Hart, C., & Timoshanko, A. (2022).

CATEGORIZATION OF LAW SCHOOLS ACCORDING TO INCLUSION OF LEGAL TECHNOLOGY IN THE CURRICULUM



**LAW SCHOOLS
WITH
DEDICATED
TECHNOLOGY
PROGRAMS OR
CENTERS**



**LAW SCHOOLS
WITH INDIVIDUAL
COURSES ON LAW
PRACTICE
TECHNOLOGY**



**LAW SCHOOLS
WITH NO
TECHNOLOGY
OFFERINGS**

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Jackson, D. (2016).

TECHNOLOGY AS A RISING TREND IN LEGAL EDUCATION

conclusions & recommendations

Relevant trends in Technology



Technology has been considered the second most important trend in legal education

Before Covid-19, technology was already the second trend in the legal education debate.

Technology: use of technology in legal practice, impact of technology in Legal Education, internet and law, legal technology and its outcomes in the legal market, needs for the evolution of legal education.

Technology after Covid-19

There is a completely **new situation under Covid-19**, where technology as a teaching tool has become a **priority**:

- Exploring new options for remote learning;
- Lack of face-to-face teaching;
- Switch to online teaching immediately;
- Live-streaming lectures;
- Increase exam flexibility;
- Gaps in the access to legal advice or legal training;
- Technology is an operational lifeline.



How to grow in the level of technology

Low level

For law schools that describe themselves as focused on technology but where there is no clear or distinctive elements of technology.

Medium level

Technology as a **teaching tool**:

- Online/blended programmes;
- Online webinars;
- Online conferences;
- Online examinations; and
- Online teaching.

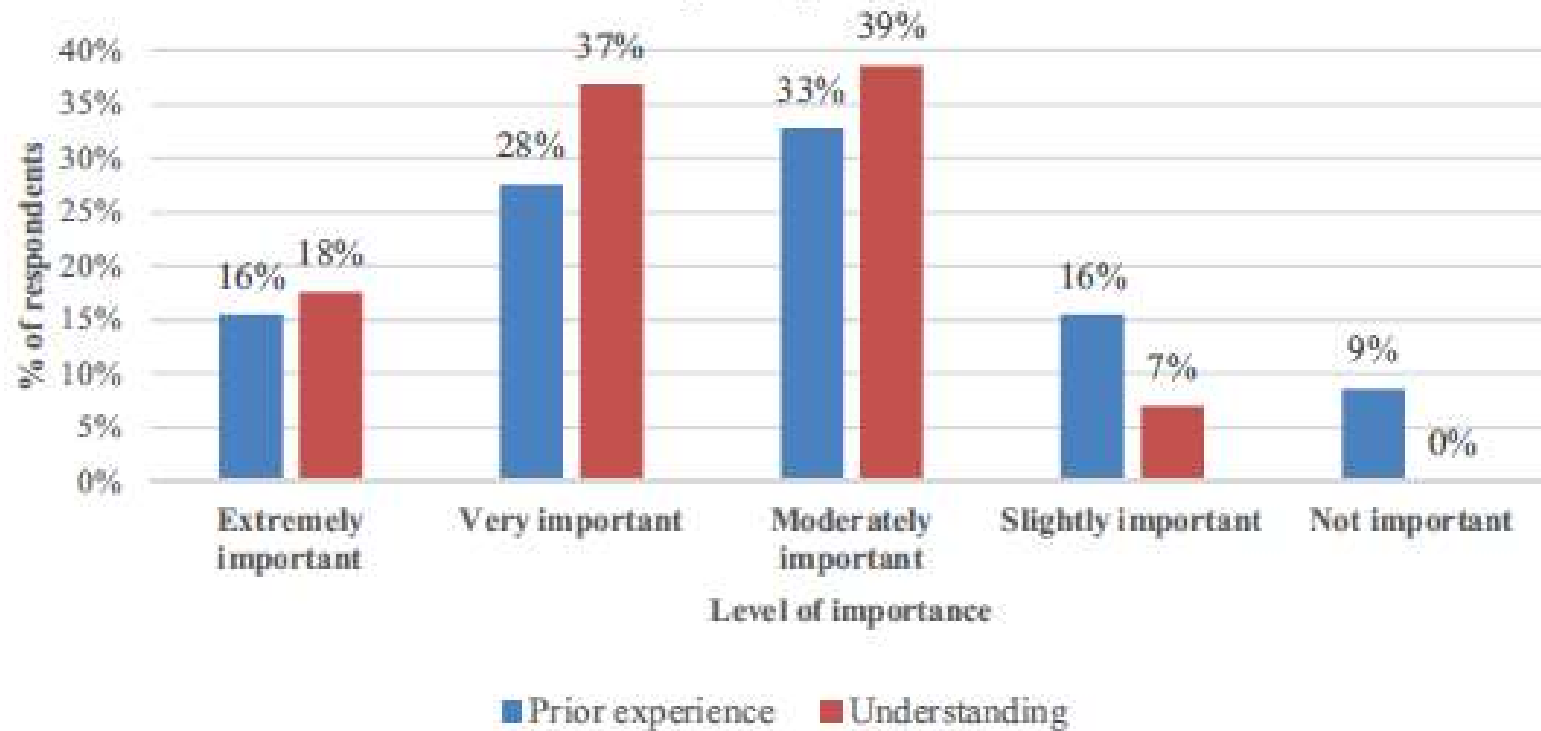
High level

Technology **as content in their programmes**:

- Law and tech focus. Legal tech;
- Courses on technology (programming, technology);
- Prepare students for future online litigation;
- Programming skills;
- Interactive online teaching combined with interactive online activities.



Importance of experience and understanding of legal technology before beginning work



How should understanding of legal technology be developed by law schools?

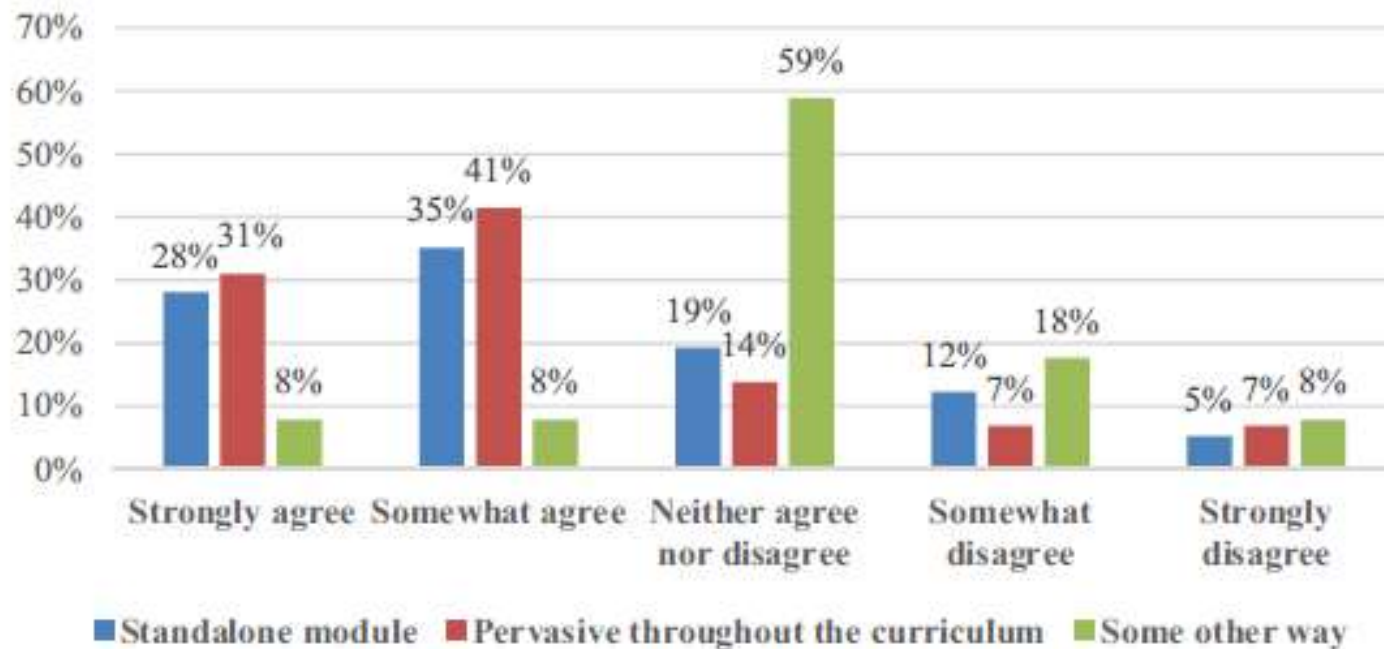


Figure 4. How should understanding of legal technology be developed by law schools?

POSSIBLE FACTORS INFLUENCING LEGAL TECH IMPLEMENTATION IN THE CURRICULUM



WHO DECIDES ON THE LAW SCHOOL CURRICULA?

- Law curriculum changes are **influenced by various entities**, but it is ultimately the **law academics** who have the most control over the adaptation and reform of curricula.
- While the **legal profession and judiciary** provide guidance—mainly to ensure consumer protection and ethical standards—**academics** have sufficient autonomy within the regulatory framework to make responsive updates to curricula.
- **Employers and market demands** also exert influence, as job-ready skills and practical expertise are increasingly expected from graduates. However, curriculum adjustments at the national level can be slow due to the need for consensus among **legal professionals and academic leadership**.
- The involvement of **students** is less direct, though feedback from **graduates** about their transition to practice is noted as valuable. **Government policies** tied to employability outcomes also push universities toward skills-based education, reflecting external pressures for more job-oriented learning.





Obstacles for Legal Tech Implementation

Bespoke Solutions, Off-the-Shelf Solutions, Partnership Model, Legal Tech Gone Wrong, ALSPs, Unauthorized Practice of Law, White Labelling

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OBSTACLES TO LEGAL TECH ADOPTION



**BESPOKE
SOLUTIONS**



**OFF-THE-SHELF
SOLUTIONS**



**PARTNERSHIP
MODEL**

LEGAL TECH GONE WRONG

TECH / ARTIFICIAL INTELLIGENCE / POLICY

'Robot lawyer' company faces \$193,000 fine as part of FTC's AI crackdown



Image: Cath Virginia / The Verge

/ DoNotPay will pay \$193,000 to settle charges that it misled consumers by claiming its services could draft valid legal documents.

By [Sheena Vasani](#), a writer covering commerce, e-readers, and tech news. She previously wrote about everything from web development to AI at Inside.

Sep 26, 2024, 12:18 AM GMT+3

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ALTERNATIVE LEGAL SERVICE PROVIDERS (ALSPs)

- An **ALSP** can be defined as any business providing legal services without being a law firm. ALSPs usually provide **specialized legal services**, often at a lower cost and increased speed compared to traditional law firms.
- **Corporate adoption of ALSPs** is particularly strong for services such as litigation management and document review.
- Alongside the development of the global ALSP sector, disruption to the legal services industry has been accentuated by changes to legislation brought in by the regulators of legal services in different territories across the world. However, following-on from the **Legal Services Act 2007, alternative business structures (ABS)** were born, paving the way for a potential reshaping of the legal market, especially in the UK.
- Importantly, an **ABS license** allows non-lawyers to own a legal practice. In addition to this, they are eligible to receive funding from external sources and can provide multiple services under one brand name, including non-legal services. Access to funding from external sources allows innovative ABS holders the luxury of being able to afford technology investments –additional spending that traditional law firms may not be able to justify.
- Among the most notable ALSPs are Deloitte, EY, KPMG, and PwC, otherwise known as the **Big Four**. These companies rank as the biggest accounting firms worldwide, deriving increased revenues from activities in legal services.

UNAUTHORIZED PRACTICE OF LAW (UPL) AND WHITE LABELLING

- **UPL** refers to attempts by non-lawyer entities to provide legal services, which challenges the traditional structure of the legal profession.
- **White labelling** in legal services involves non-legal companies creating legal documents or services, marketed and sold under their brand, without clearly involving legal professionals.
- The importance of **understanding these in legal education** is underscored by the need for future lawyers to address the ethical, professional, and technological complexities these practices introduce.
- UPL and white labelling bring new dynamics to the industry, prompting legal education to incorporate technological competence, regulatory awareness, and ethical considerations to prepare students for these evolving challenges

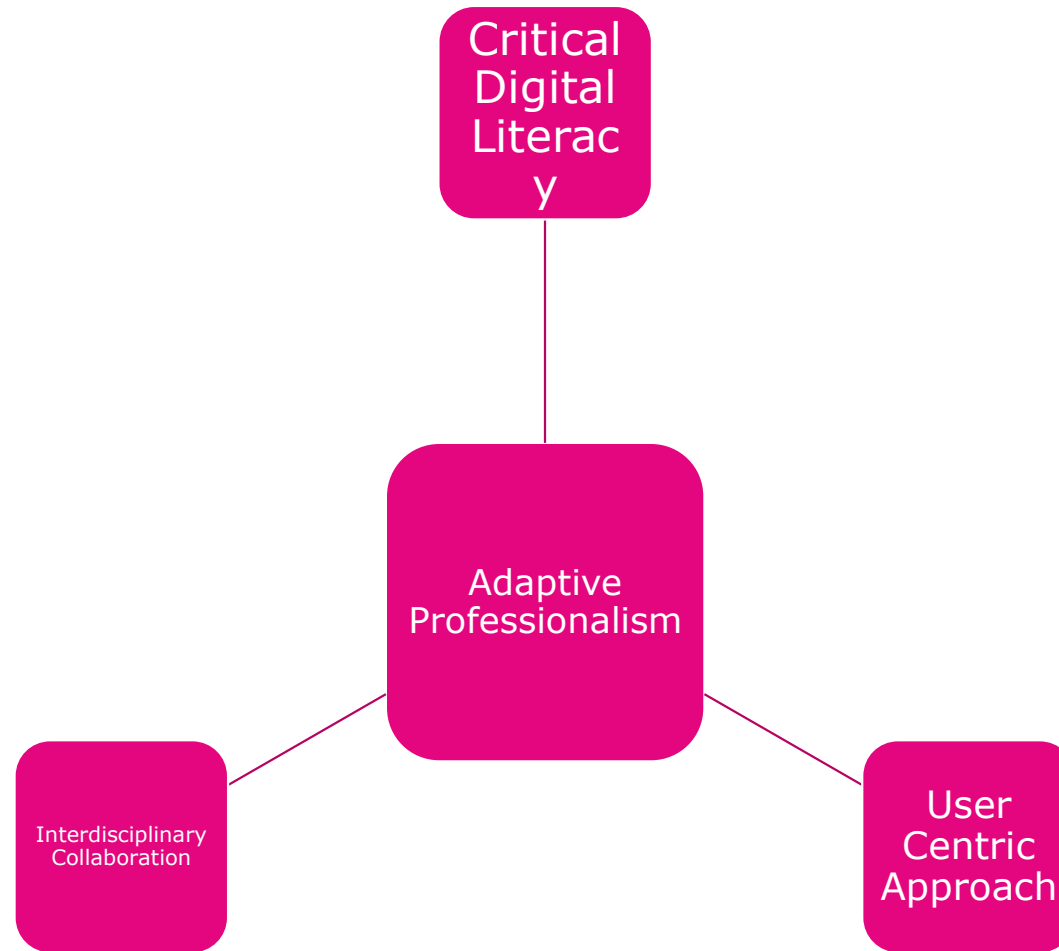


Adaptive Professionalism

Critical Digital Literacy, User-Centric Approach, Interdisciplinary Collaboration

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ADAPTIVE PROFESSIONALISM



LEGAL TECH JOB MARKET

The screenshot shows the LegaltechJobs website interface. At the top, there's a dark blue header with 'Legaltech Jobs' on the left, 'LegaltechHub' in the center, and user profile, cart, and 'Post a job' buttons on the right. Below the header, a left sidebar contains filters: 'New jobs 19', 'Keywords' (with a search box for 'Company, title...'), 'Location' (with a search box for 'Filter by location...'), 'Remote OK' and 'Remote only' toggle buttons, 'Job Category' (set to 'All categories'), 'Job Type' (set to 'All jobs'), and 'Salary' (with 'Min' and 'Max' input boxes and a 'Select timeframe' dropdown). The main content area displays a list of job listings, each with a company logo, job title, company name, location, remote status, and full-time status. The listings include: 'Solutions Consultant' at Anaqua (Anywhere, Remote only, Full time), 'Legal Operations' at Openloop Health (Anywhere, Remote only, Full time), 'Legal Operations Analyst' at Cushman & Wakefield (Chicago, IL - Hybrid, Remote, Full time), 'Knowledge Development Lawyer' at Charles Russell Speechlys (London, England, United Kingdom, Full time), and 'Practice Group Leader' at Intapp (London, England, United Kingdom, Remote, Full time).

Legal Technology Solutions Lead

📍 Seattle, WA, USA - Hybrid

🕒 Full time

👁️ 76 views

HYBRID
False

[Apply for this position](#)

[Save](#)



Experience:

- Bachelor's degree in Information Technology, Computer Science, Legal Studies, or a related field highly desirable.
- Minimum of 6 years of experience in legal technology or a related field.
- Strong understanding of legal processes and the ability to translate legal requirements into technology solutions.
- Proficiency with legal technology tools and software including e-discovery platforms (e.g., CSDisco), contract lifecycle and document management systems (e.g., Ironclad, Evisort, DocuSign), matter management & e-billing systems (e.g., Onit, Legal Tracker), knowledge management systems, GRC solutions, etc.
- Strong analytical and problem-solving skills, with the ability to leverage data and insights to drive decision-making and continuous improvement.
- Strong bias towards action with the ability to adapt as the environment evolves.
- The ability to lead collaborative teams consisting of multiple disciplines, manage project timelines and budgets, and drive results in a fast-paced, dynamic environment.
- Proactive communication and excellent interpersonal skills, with the ability to effectively interact with stakeholders at all levels of the organization and influence decision-making.
- Proven ability to build and maintain effective relationships with internal and external partners, vendors, and consultants within the finance and technology industry.

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<https://legaltechjobs.com/>



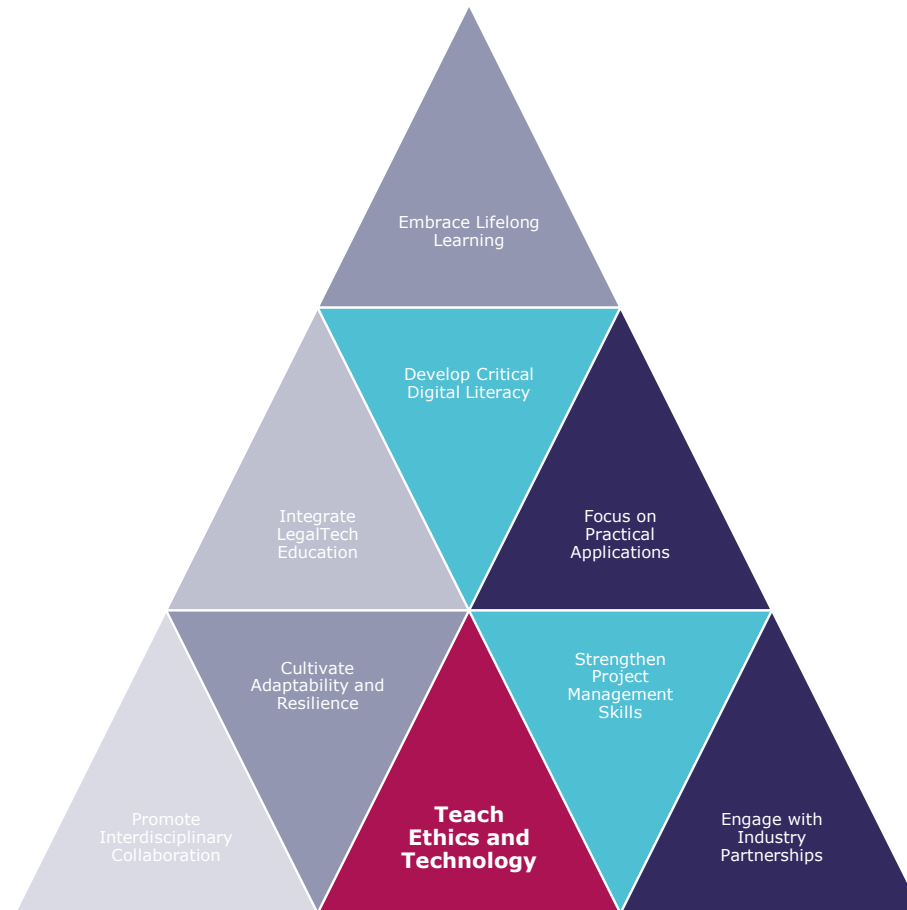
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Recommendations for Future

Self-Regulated Learning,
Legal Tech Courses Development,
Professional Identity Formation

HOW TO PREPARE FOR THE FUTURE?



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Ireland, C., & Hockley, R. (2020).

HOW TO PREPARE STUDENTS FOR A TECH-DRIVEN LEGAL ENVIRONMENT

**Incorporate
Self-
Regulated
Learning**

**Develop
Legal
Technology
Courses**

**Focus on
Professional
Identity
Formation**

**Engage with
Real-World
Projects**

**Promote
Practical
Problem-
Solving**

RECOMMENDATIONS FOR LAW SCHOOLS TO PREPARE GRADUATES FOR A RAPIDLY EVOLVING LEGAL LANDSCAPE

- **Curriculum Review and Redesign:** Law schools should proactively review and redesign their curricula to align with the dynamic nature of legal practice, focusing on relevant skills and knowledge that meet modern employment demands.
- **Engagement with Employers:** Law schools should collaborate more closely with employers to understand the competencies required in today's legal job market, ensuring that academic programs remain responsive to industry changes.
- **Cross-Disciplinary Connections:** Schools should incorporate interdisciplinary knowledge, such as interpersonal skills, emotional intelligence, teamwork, project management, and familiarity with other relevant disciplines, to prepare students for multifaceted roles in the legal field





REFERENCES

- Alexander, J., McConnell, S., Mitchell, R., & McGrane, A. (2024). Technological challenges for modern law school pedagogy: preparing graduates for the modern legal workplace. *The Law Teacher*, 58(1), 32-57.
- Brescia, R. H. (2022). Teaching to the Tech: Law Schools and the Duty of Technology Competence. *Washburn LJ*, 62, 507.
- Future Law. (2024, August). FutureLaw Newsletter August 2024: Baltic LegalTech. LinkedIn. Retrieved November 1, 2024, from <https://www.linkedin.com/pulse/futurelaw-newsletter-august-2024-baltic-legaltech-future-law-ee-ab3cf/>
- Galloway, K., Webb, J., Bartlett, F., Flood, J., & Webley, L. (2019). *The legal academy's engagements with lawtech: Technology narratives and archetypes as drivers of change*. *Law, Technology and Humans*, 1, 27-45.
- Google Books. (n.d.). *Ngram Viewer: Civil Procedure, 1800–2022*. Retrieved November 1, 2024, from https://books.google.com/ngrams/graph?content=civil+procedure&year_start=1800&year_end=2022&corpus=en&smoothing=3
- Google Books. (n.d.). *Ngram Viewer: Legal Tech, 1800–2022*. Retrieved November 1, 2024, from https://books.google.com/ngrams/graph?content=legal+tech&year_start=1800&year_end=2022&corpus=en&smoothing=3
- Hart, C., & Timoshanko, A. (2022). Ready for a Reboot: Law Schools Need to Reboot and Upgrade the Law Curriculum Now to Better Meet the Impacts of Technology. Caroline Hart and Aaron Timoshanko, 'Ready for a Reboot: Law Schools Need to Reboot and Upgrade the Law Curriculum Now to Better Meet the Impacts of Technology'(2022), 15.
- Holt, K. (2024, September 25). *DoNotPay must pay \$193,000 to settle false claim charges from FTC*. The Verge. Retrieved November 1, 2024, from <https://www.theverge.com/2024/9/25/24254405/federal-trade-commission-donotpay-robot-lawyers-artificial-intelligence-scams>
- IE Law School. (2020). *Blueprint for Global Legal Education*. IE University. Retrieved November 1, 2024, from <https://www.ie.edu/law-school/knowledge-exchange/blueprint-global-legal-education/>

REFERENCES

- Emerson, A. (2021). How the Process of Building Legal Technology Creates Professional Agility. *John Marshall Law Journal*, 14, 2020-2021.
- Ireland, C., & Hockley, R. (2020). A call for introducing LegalTech in the classroom. *Computer Law & Security Review*, 36, 105399.
- Ilvessalo, H. (2024, August 14). *Legal Tech & Legal Design in Finland Map, 2024*. Ilves Solutions Oy. Retrieved November 1, 2024, from <https://www.ilvessolutions.fi/en/blog/2024/08/14/legal-tech-legal-design-map-in-finland-map-2024/>
- Jackson, D. (2016). *Human-centered legal tech: integrating design in legal education*. *The Law Teacher*, 50(1), 82-97.
- Legal Tech Map. (n.d.). *Legal Tech Map*. Retrieved November 1, 2024, from <https://www.legaltechmap.nl/>
- O'Leary, D. L. (2020). "Smart" Lawyering: Integrating Technology Competence into the Legal Practice Curriculum. *UNHL Rev.*, 19, 197.
- PwC UK. (n.d.). *PwC Law Firms' Survey 2023*. PwC UK. Accessed October 31, 2024, from <https://www.pwc.co.uk/industries/legal-professional-business-support-services/law-firms-survey.html>
- Ryan, F. (2021). *Rage against the machine? Incorporating legal tech into legal education*. *The Law Teacher*, 55(3), 392-404.
- Statista. (n.d.). *Legal tech*. Retrieved November 1, 2024, from <https://www.statista.com/study/84775/legal-tech/>
- Statista. (2024). *Legal professionals' extent of technology usage worldwide in 2023*. Retrieved November 1, 2024, from <https://www.statista.com/statistics/1454663/legal-professionals-extent-of-technology-usage/>
- Koppel, T. (2024). *FTC toob esile petturlikud AI-väited ja skeemid*. Tehisaru.ee. Retrieved November 1, 2024, from <http://tehisaru.ee/2024/09/29/ftc-toob-esile-petturlikud-ai-vaited-ja-skeemid/>
- Wen, J., Zhang, S., & Chang, C. P. (2022). Legal origins and innovation: Global evidence. *Technological Forecasting and Social Change*, 174, 121216.

THANK YOU!

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