GenAl and the Future of Patent Portfolio Development

Presented by lan C. Schick, Ph.D., Esq.

at 2023 Summit Meeting of GNIPA

(The Global Network Of National IP Practitioner Associations)

on October 26, 2023









THE US PATENT ECOSYSTEM

Trending Challenges:

- Attorney productivity
- Operational costs
- Service sustainability

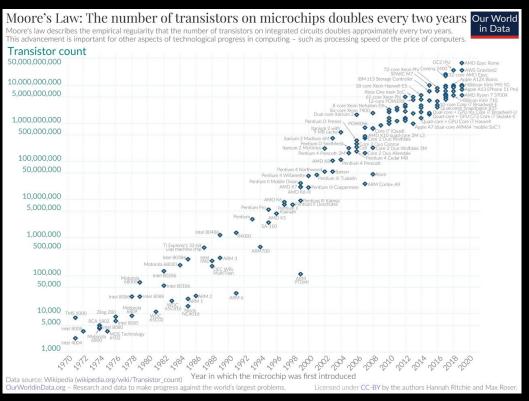
Breakthrough Opportunities:

- Enhance efficiency
- Reduce costs
- Improve services

The connection between INNOVATION & FILING ACTIVITY



TECHNOLOGICAL INNOVATION IS ACCELERATING



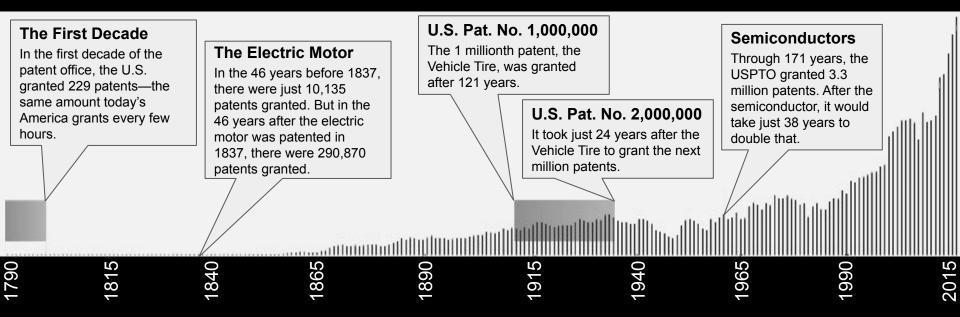
Law of accelerating returns

- Applies to all of technology
- Can be measured with remarkable precision in information based technologies

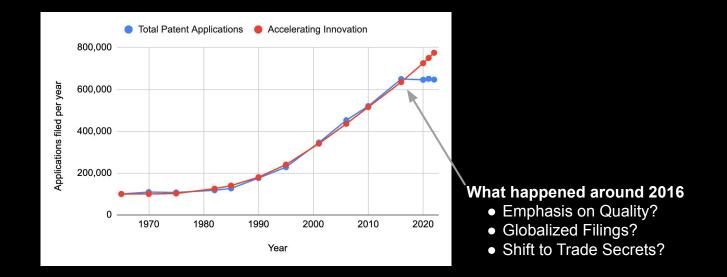
Examples:

- DNA sequencing
- Communication speeds
- Electronics of all kinds
- Size of technology

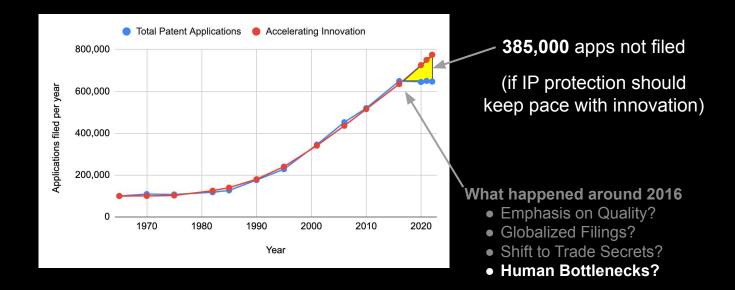
IP KEEPS PACE WITH ACCELERATING INNOVATION (at least historically)



SHOULD IP CONTINUE PACING WITH INNOVATION?



ARE WE LEAVING IP PROTECTION ON THE TABLE?

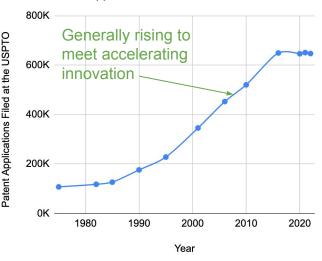


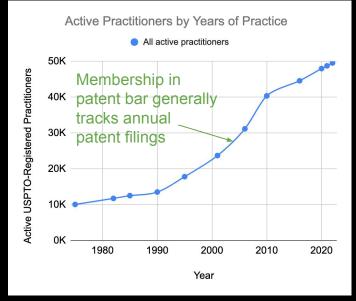
The connection between

SERVICE DELIVERY &

FILING ACTIVITY

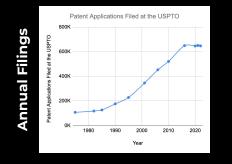
DEMAND & LABOR SUPPLY



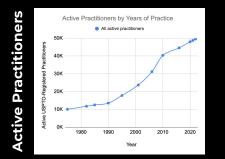


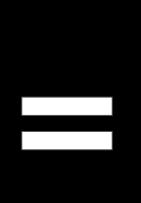
Patent Applications Filed at the USPTO

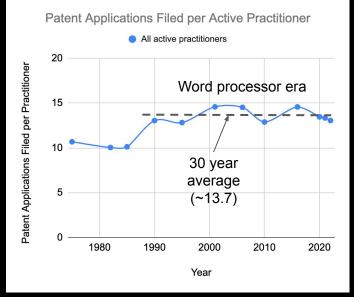
AVERAGE PRACTITIONER PRODUCTIVITY



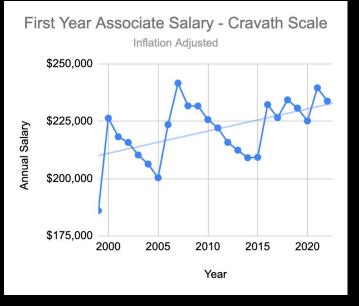
Divided by







OPERATIONAL COSTS & REVENUE

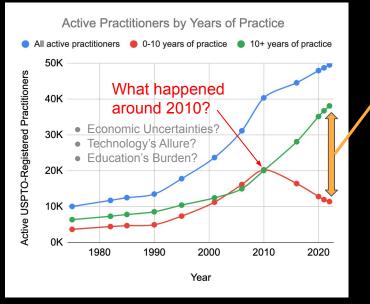




SERVICES SUSTAINABILITY

- Vanishing Law Firm Profits
 - **FLAT**: Practitioner productivity
 - **RISING**: Operational costs (e.g., salaries)
 - **FALLING**: Perceived value (i.e., ave fees)
 - **SAME**: Document requirements
- Trends likely to continue (hope is not a plan)
- Effects on Quality of Service???
 - Timeliness & doc quality

AN UNSUSTAINABLE PATENT BAR



Acute talent imbalance

 Late-career practitioners outnumber early-career almost 4 to 1

Continuing current path

- Increasing operational costs
- Declining service quality
- Production bottleneck

RECOVERING SERVICES SUSTAINABILITY



GenAI: A GAME CHANGER FOR PATENT PROFESSIONALS

- Empowers patent professionals:
 - Focus on high-value tasks like strategy and creativity

• Lowers operational costs:

Automates the mundane

• Adds new value:

- Efficiency in throughput
- Newly enabled insights and strategies



THE OPPORTUNITY

Generative Al:

Can be trained to→

- Understand the language, structure, and requirements of patent applications
- Create <u>entirely new content</u>, tailored to a specific invention and compliant with patent laws and regs



Data Security Confidentiality Hallucinations

Common Fears & Misconceptions	Reality
Confidential info is accessible to other customers and OpenAl	Prompts and completions (P&Cs) are NOT available to other customers or OpenAI*
Confidential info is used to improve LLM models and services	P&Cs are NOT used to improve OpenAI models, Microsoft or 3rd party products or services*
Hallucinations render GenAl work product untrustworthy	Document generation is more akin to translation; i.e., LLMs are not used as "source of truth"

*https://learn.microsoft.com/en-us/legal/cognitive-services/openai/data-privacy

ACTUAL RISKS

• WAITING to embrace GenAI for patent development ...

- Allows competitors to:
 - Gain an intractable lead
 - Embedded advantage
 - Difficult to catch up
- In contrast, being a leader can
 - Position company for success
 - Advance individual careers



FINAL THOUGHTS: THE TIME IS NOW

- Status quo is not sustainable
- Trending realities harm all stakeholders
- Drastically increasing practitioner productivity is essential for patent ecosystem sustainability and prosperity
- GenAl represents the only viable path forward

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