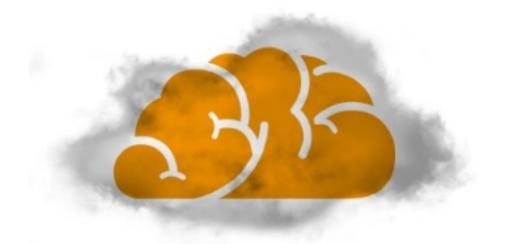
# What to consider when protecting and utilizing AI

10.9.2019 Marketing Day

Akseli von Koch

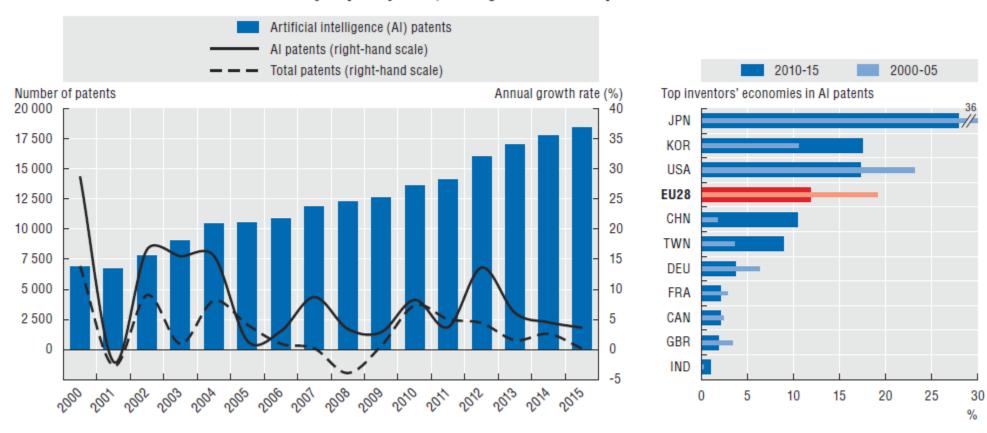
Patent Attorney EU Trademark and Design Attorney



# AI patenting is on the rise

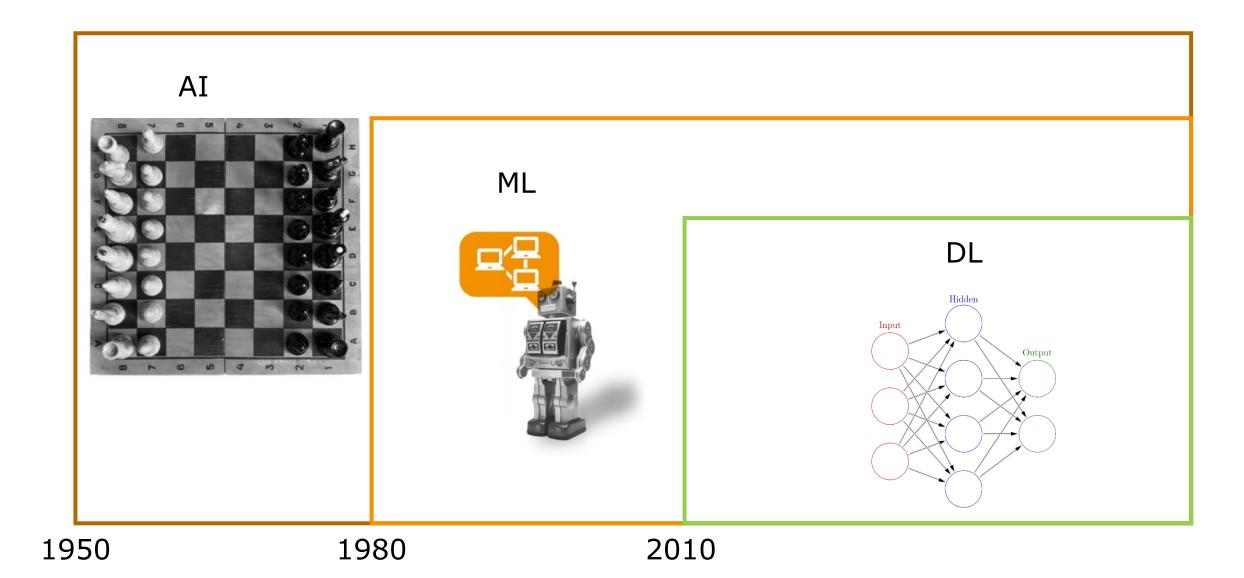
#### 7. Patents in artificial intelligence technologies, 2000-15

Number of IP5 patent families, annual growth rates and top inventors' economies



Source: OECD, STI Micro-data Lab: Intellectual Property Database, http://oe.cd/ipstats June 2017. StatLink contains more data. See chapter notes.

StatLink Intellectual Property Database, http://dx.doi.org/10.1787/888933616978

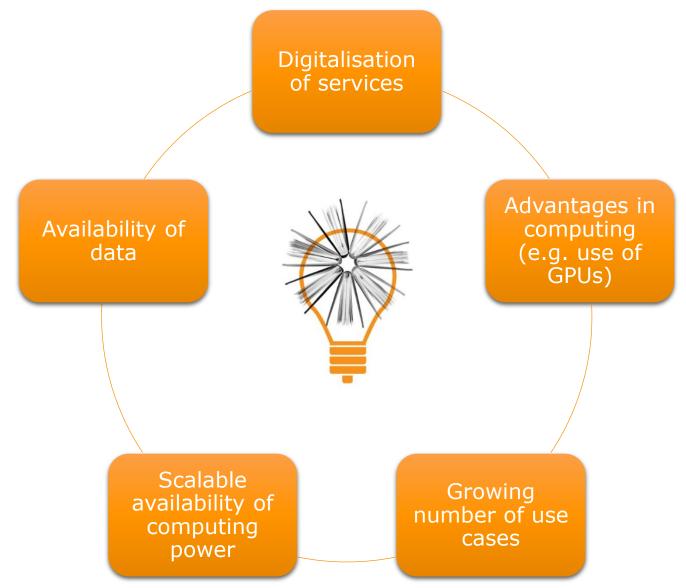


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**Artifial intelligence = computer mimicking human actions** 

Machine learning = computer improves its capability to solve problems by learning from experience (data)

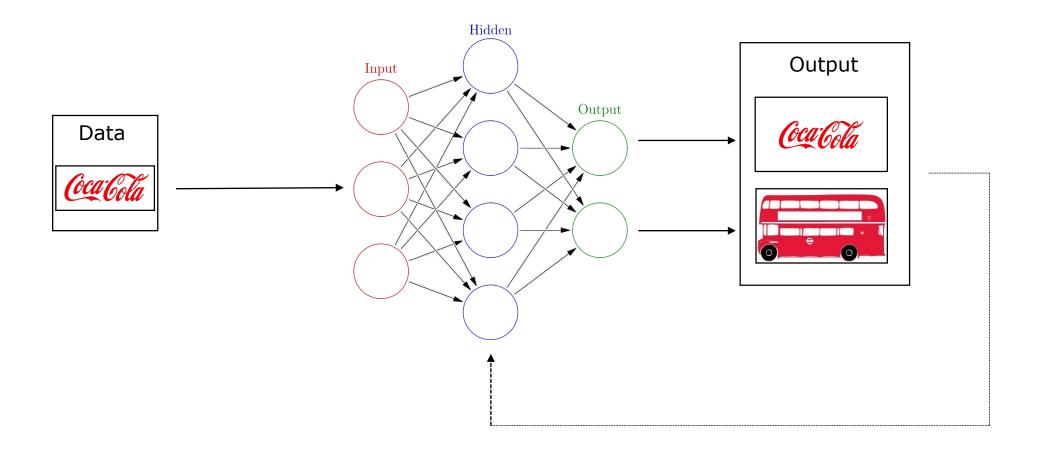
### Reasons for the new AI boom



# **Applications**

- Siri, Alexa
- Medicine
- Language translation and document managment
- Autonomous vehicles
- Logistics
- Marketing
- Trading
- Legal tech





#### It's all about the data

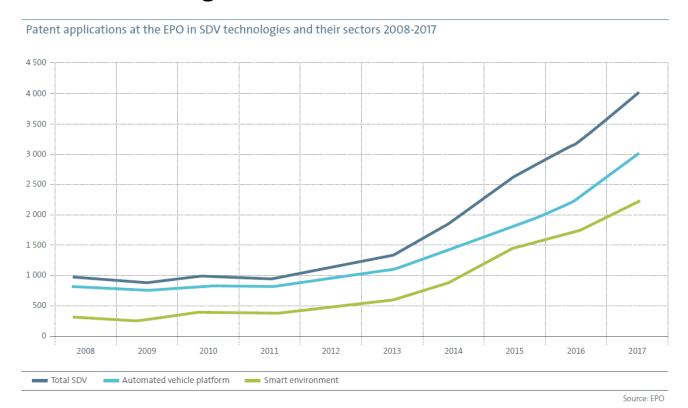
"An AI is only as good as the data used to create it"

- The value of good, proprietary data increases

- The value of proprietary AI taught with proprietary data increases

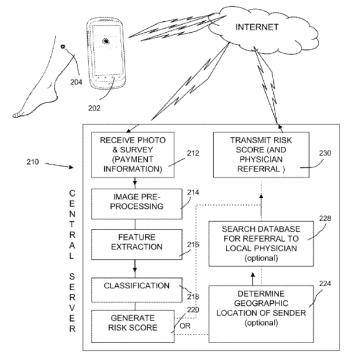
#### **CASE:** automous vehicles

- A race to collect good data and create the best algorithms
  - Additional features are offered at a discount or even free to enable data collection
- Better data -> better algorithms -> less accidents



#### **CASE:** life sciences

- Better data -> better algorithms -> more human lives saved
- Do some tasks become "AI-obligatory"?



System and method for remote melanoma screening (US Pat. no. 8543519)

# **Legal tools for protection**

- -Patents
- -Trade secrets
- -Copyright
- -Sui Generis Database right
- -Contracts



# **Patenting AI = a feasible approach?**

- Not for
  - Data
  - A mathematical or statistical model in itself
- For
  - Technical application (system or method) of ML
- Examples of AI patents
  - Core solutions for AI techniques, e.g. improvements in neural networks and deep learning
  - Functional applications of AI technologies, .e.g OCR and machine vision
  - Application-specific solutions, e.g. medical, telecommunications and vehicle applications



"Patent protection of algorithms and software is narrow and easy to design around"

- In general, a false statement that is only true to poorly and unilaterally designed protection

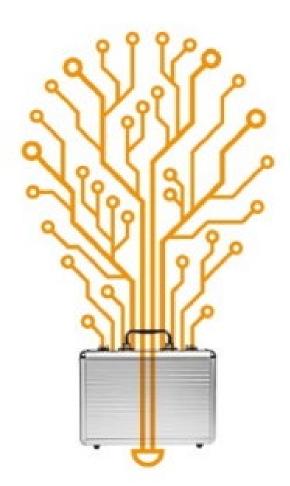
# **Growing activity =** increase in disputes?

- Whether you patent or not others will
- Increase in investments = increase in enforcement of rights
- Not knowing doesn't save you from infringement
- Build your freedom to operate into your solution



#### In a nutshell

- Activity in the field is increasing tremendously
- Legal protection must be assessed from a number of perspectives
- Understand the actual solution behind the hype
- Monitor competitor's IPRs when implementing your AI solutions



# HEINO NEN

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