

Digitalpatente und KI basierte Use Cases für KMUs



AWS Webinar 02.03.2021

Prof. Dr. Alexander J. Wurzer

CEIPI: Center for International Intellectual Property Studies



CEIPI is a European Center of Excellence for Intellectual Property and an international IP training and research center







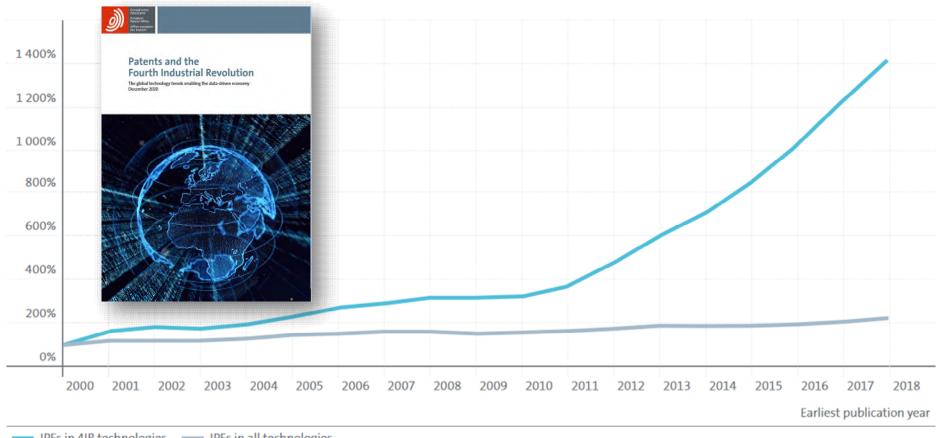


Trends in the Application of Digital Patents

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Figure E1



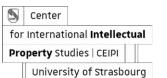


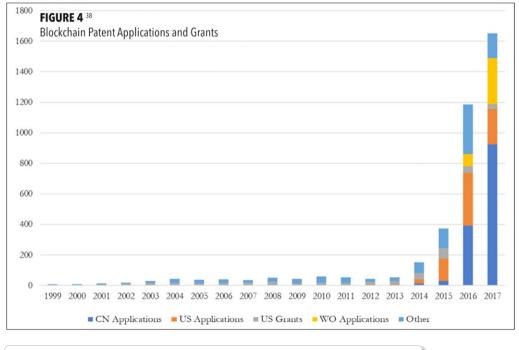
IPFs in 4IR technologies
 IPFs in all technologies

Source: European Patent Office

Link to the EPO study

Trend of Applications: AI/ Blockchain





Patenting Blockchain
One-day conference
4 December 2018
European Patent Office, The Hague





Link to the AI Initiative of European Patent Office

Link WIPO Initiative

Link Trend Analysis bei IOTA-Technologies

CEIPI Education in IP Management

Course of studies

Founded in 2006 to enable the European industry to gain competitive advantage in digital transformation

Executive IP Management Days
 Annual exchange of industry best practice

Link to the Events

Conferences

Interdisciplinary exchange between industry, academia and institutions to push the development of economic benefits of IP

Graduate School

Link to the Graduate School

Graduate school dedicated to industrial subjects with graduate students from the industry

Blog

Link to the Blog

Communication platform for customer-focused IP strategies in times of digitization (www.ipbusinessacademy.org)



Link to the IP B.A. Program with the AWS





MIPLM Industry Partner and Best Practice Case Studies



















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GROUPE





S -- (B)

Schneider GmbH & Co. KG

INDUSTRY CASE

Rittal

INDUSTRY CASE

STUDY

RITTAL

STUDY



INDUSTRY CASE

STUDY

2

Schöck





BOSCH

Technik fürs Leben





F FRESENIUS

KENWOOD



Schlumberger











DANISCO







Link to Case Study Collection



S --- (B)

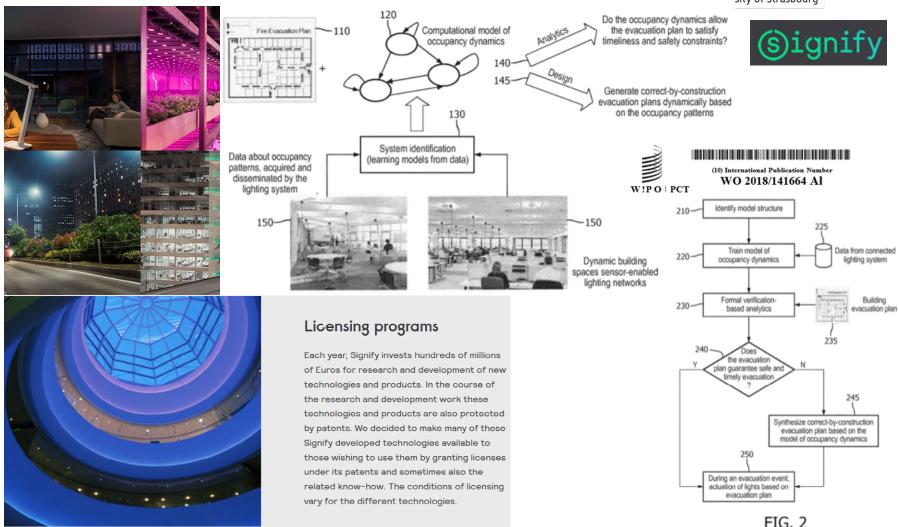
PMD in optical

INDUSTRY CASE

STUDY IFM

Philips / Signify: Use Case Business





Link to the business model of Signify

Relocation of the system boundaries







Phase 2: Digitization of the machine environment



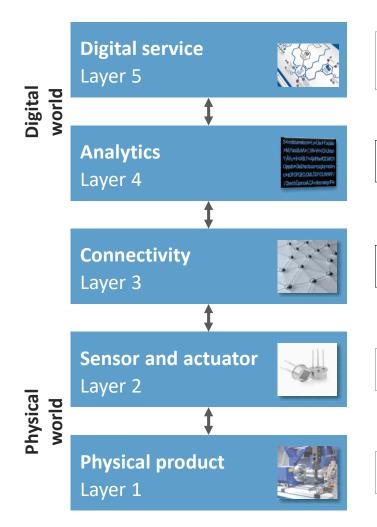
Phase 3: Digitization of the Ecosystem



Phase 1: Digitization of the machine

The Success of IP is Determined within the Market Example: Netflix (US)





Displaying data associated with a program based on automatic recognition EP3138296B1

Fault detection in streaming media EP2654225B1

Parallel streaming EP2545459B1

Application discovery EP2680500B1

Securely connecting control device to target device EP2852122B1





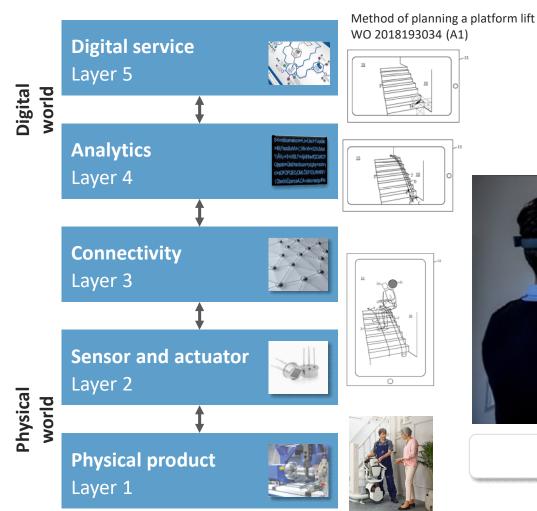
Individual Content

The Success of IP is Determined within the Market Example: ThyssenKrupp (DE)

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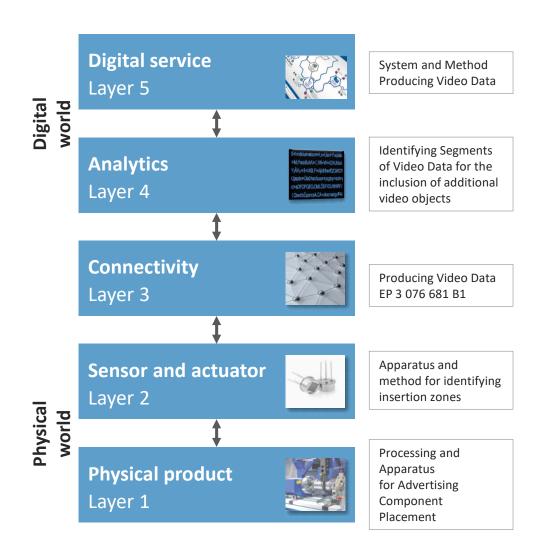




IP-Design at ThyssenKrupp and Microsoft

The Success of IP is Determined within the Market Example: Tencent (CN) + Mirriad (GB)









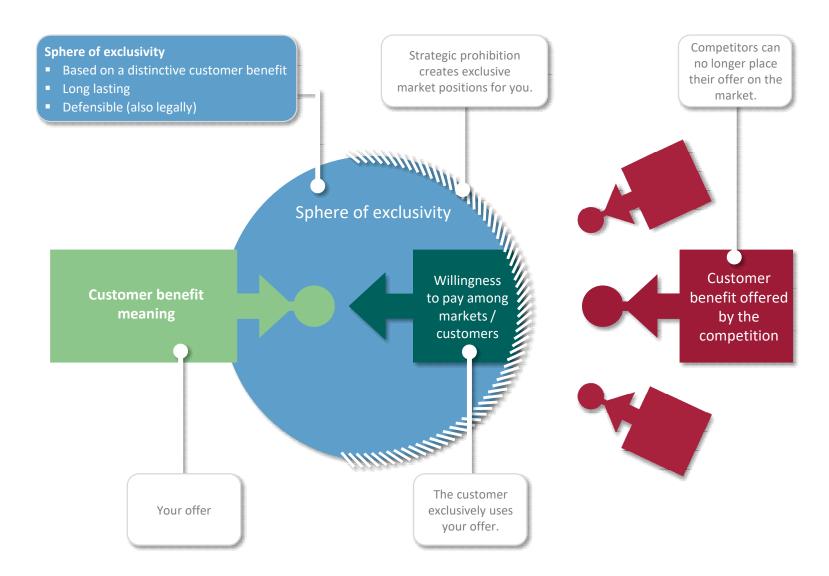




Patent Strategies for Al-based Product Placement

Goal of an IP Strategy: Creating Added Value Positions with the Customer

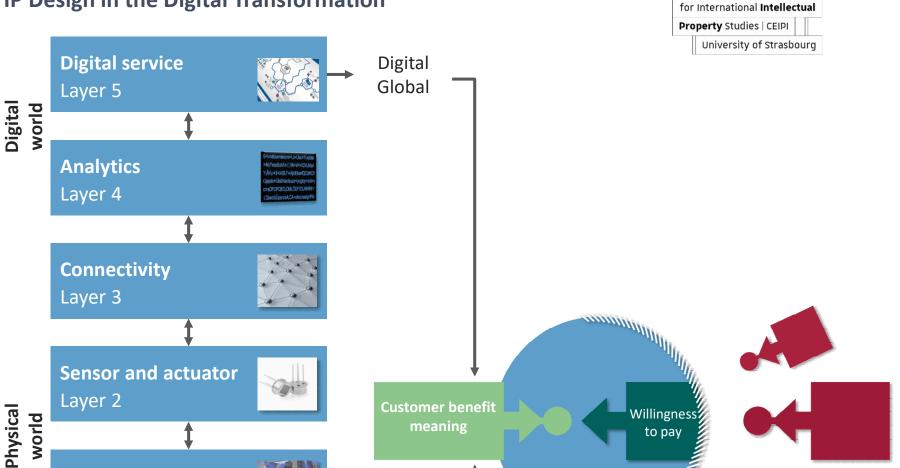




IP Design in the Digital Transformation

Physical product

Layer 1



Source: Fleisch, E. / Weinberger, M. / Wortmann, F. (2015): Geschäftsmodelle im Internet der Dinge, in: zfbf, Dezember 2015, S. 444 – 464.

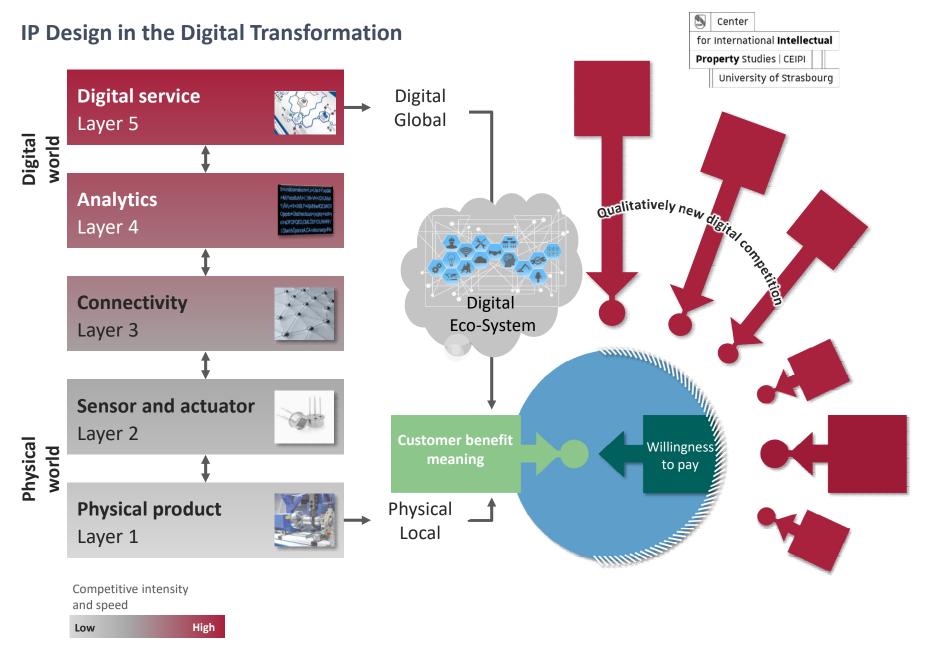
Physical Local

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IP Design in the Digital Transformation for International Intellectual Property Studies | CEIPI University of Strasbourg **Digital service** Digital Global Layer 5 Digital world **Analytics** Layer 4 Connectivity Digital **Eco-System** Layer 3 Sensor and actuator Layer 2 **Customer benefit Physical** Willingness world meaning to pay Physical product Physical Local Layer 1

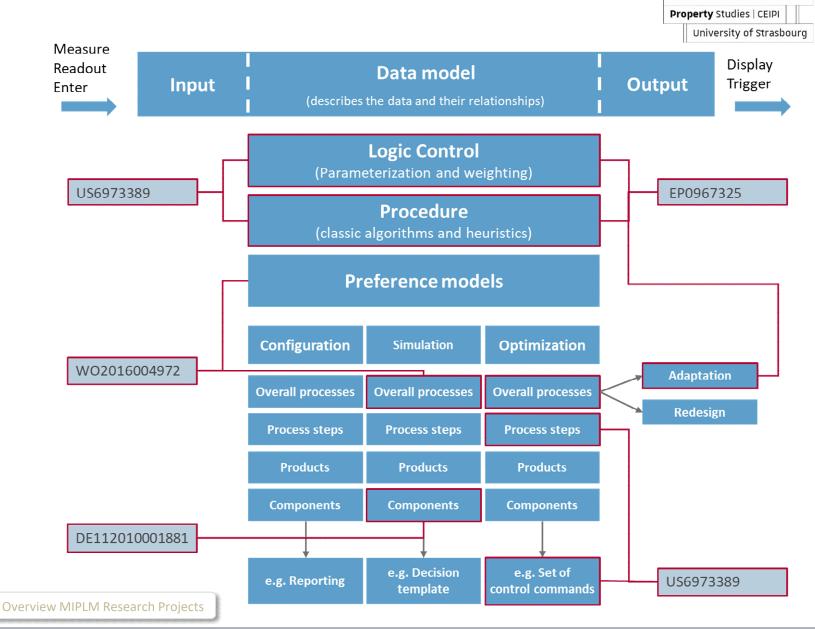
Source: Fleisch, E. / Weinberger, M. / Wortmann, F. (2015): Geschäftsmodelle im Internet der Dinge, in: zfbf, Dezember 2015, S. 444 – 464.

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Source: Fleisch, E. / Weinberger, M. / Wortmann, F. (2015): Geschäftsmodelle im Internet der Dinge, in: zfbf, Dezember 2015, S. 444 – 464.

Taxonomy

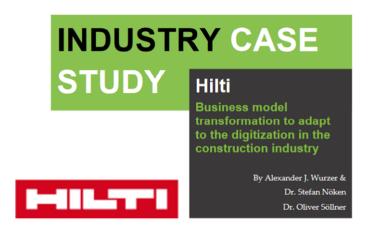


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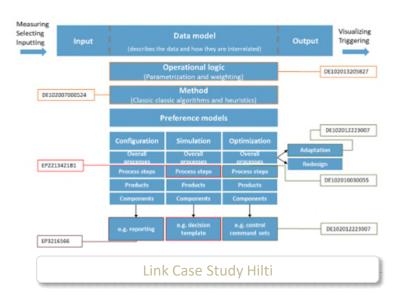
for International Intellectual

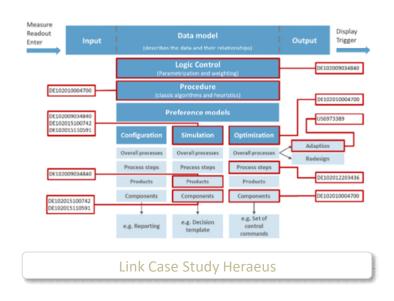
The Success of IP is Determined within the Market by Exclusive Value Creation





INDUSTRY CASE STUDY Heraeus From amorphous metals to digital business models By Alexander J. Wurzer, Dr. Jürgen Wachter Heraeus Heraeus From amorphous metals to digital business models By Alexander J. Wurzer, Dr. Jürgen Wachter





Use case: Destroying parasites on fish

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Link to the Video

Use case: Destroying parasites on fish

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University of Strasbourg

The salmon market:

- Around 70% of Atlantic salmon is produced in aquaculture
- Aquaculture harvest grows by 7% per year since 2010
- 1.3 million tons per year (more than half of the world harvest) are harvested in the North Sea

Risk factors:

- A main risk factor in salmon farming are parasites such as sea lice
- Sea lice are classically controlled by good animal husbandry practice
- Also, the use of mechanical tools, such as special nets or physical lice removal systems, keeps fish healthy
- Esben Beck had the idea to use instead lasers for the lice removal



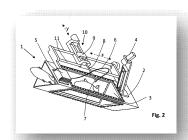


Use case: Destroying parasites on fish



The solution:

- Esben Beck developed a submergible device to remove sea lice from salmons with lasers
- The device uses artificial intelligence to analyze the surface and path of the fish
- Underwater lasers and mirrors are used destroy the parasites



The advantages:

- Compared to tradition methods, fish are less stressed and harmed by the lasers
- The device can be operated 24/7 without any human guidance

The company:

- Esben Beck founded his SME Stingray Marine Solutions AS in 2012, which has now 50 employees and yearly sales of the AI driven devices of 10 million €
- He was nominated in 2019 for the European Inventor Award of the EPO in the category SME and his patent: EP2531022B1 Method and device for destroying parasites on fish



University Certificates and Diploma in IP Management Cooperation CEIPI and AWS





Education in IP Management in distance learning:

8 independet university certivicates in IP management

- IP Strategy development
- IP Valuation I
- Integrated IP and innovation management
- IP in the industry 4.0
- IP valuation II
- Quality in operational IP management
- IP portfolio management and controlling
- Leadership in IP management

University diploma

IP Business Administration

- Consists of all 8 certificates
- and a final examination



More Information:

Link to the IP B.A. Program with the AWS

University Certificates and Diploma in IP Management Cooperation CEIPI and AWS





Werden Sie ein Experte im IP Management IP-Management Ausbildung CEIPI & AWS

Programm

Die IP-Management Ausbildung bietet Ihnen fundiertes und weitreichendes Wissen zum Verständnis und zur Anwendung von IP in kleinen und mittelständischen Unternehmen. Bestandteile sind etwa IP-Strategieentwicklung und IP-Valuation. Sie können Ihrem KMU zum Erfolg in der Digitalisierung verhelfen.

Die Ausbildung ist jederzeit online möglich, die Kurse sind individuell buchbar. Sie können entweder an allen acht Kursen teilnehmen und damit ein Universitäts-Diplom erwerben, oder je nach Bedarf einzelne Kurse belegen.

Wichtiges in Kürze Sprache: English Gebühr pro 2ertifikat: 900 Euro 2ertifikat: START: 15.03, 15.06, 15.09 and 15.12 Info: Timetable Voraussetzung: keine Zielgruppe: Mitarbeiter KMUs mit und ohne IP Vorkenntnisse Abschluss: Universitätszertifikat der Universität Strasbourg. CEIPI

More Information:

Link to the IP B.A. Program with the AWS