



Od osobných AI-asistentov k suverénnej AI

3 výzvy pre verejnú správu



Martin Čmejrek
ITAPA AI 2025
Zimná jazdiareň, Bratislavský hrad 2, 9. prosince 2025
[online](#)

MAMA AI Team History

(Prague, Czech Republic)



IBM Research (1992-2021)

Basic research in the fields of
Speech recognition, Speech
synthesis, Conversational AI,
Machine Translation

IBM Watson (2014-2021)

Conversational, Speech & NLP
on IBM Cloud:

- Watson Assistant
- Watson Speech To Text
- Watson Text To Speech
- Watson Language Translator



100+ patents &
publications

T3 AI Award
Winner 2023

AI Award Winner
2024

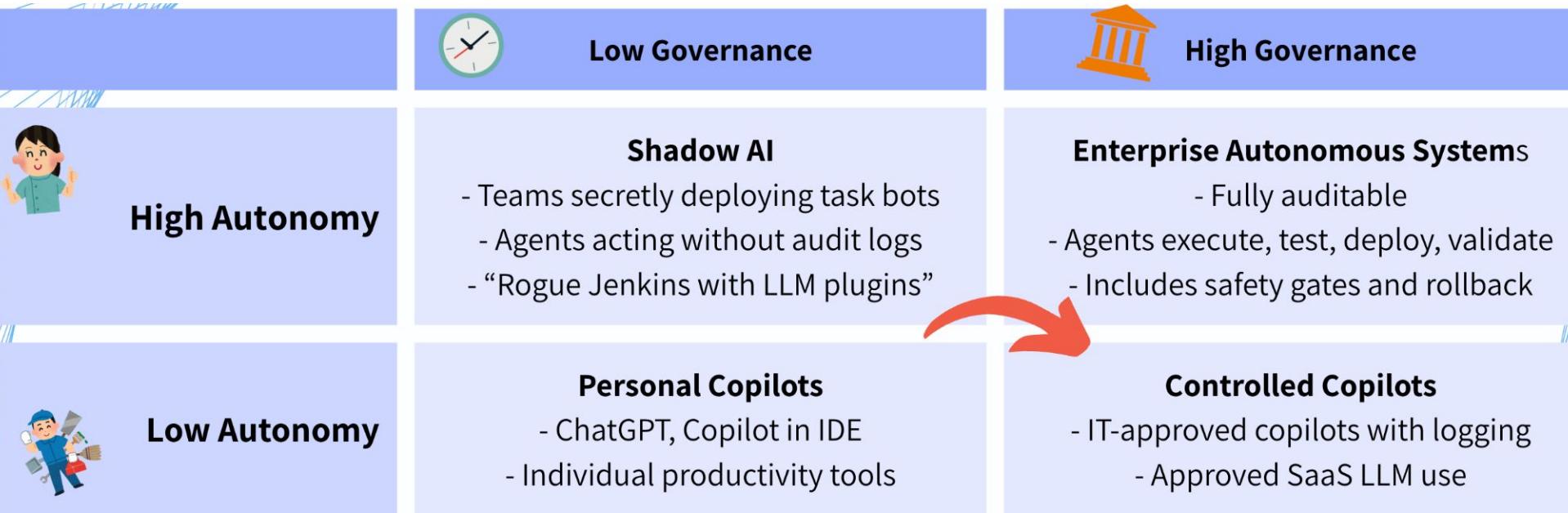
CEE Newcomer
2023

The MAMA AI (2021-present)

European Group that build **secure, practical and sustainable AI**
AI Products and Services for **on-prem and SaaS**
Trusted and **top-skilled international** partner

Bezpečnost

Autonomy vs. Governance



Shadow AI happens when autonomy increases before governance does.

Enterprises that “ban AI” just push the top-left quadrant underground.

Mature orgs move from the left to right by adding auditability, monitoring, and policy frameworks.

Clauses & Exclusion Library

⚠️ 2
Total Clauses Found⚠️ 20
Total Exclusions Found⚠️ 17
Total Unfound Clauses & Exclusions↗️ 39
Total Clauses & Exclusions Checked

Document Related

Wording Analysis Assessment

Type	Clauses & Exclusions	Found	Page	Confidence Level
Exclusion	IT and Cyber Risk	✓	14	Medium
Exclusion	NBC and NBCR Terrorism	✓	6	High
Exclusion	Nuclear Energy Risk	✓	11	Medium
Exclusion	Obligatory Reinsurance	✓	6	High

⚠️ IT and Cyber Risk Found: ✓

◀ 14 of 39 ▶

AI Reasoning (hover to display full detail)

The contract does contain a specific exclusion that aligns with the definition of IT and Cyber Risk, specifically referenced as the Information Technology Hazards (Risk) Exclusion Clause. This clause directly excludes losses arising out of damage to computer systems, aligning with the exclusion of c...

Provide Feedback

Is this analysis correct?

  Correct  Incorrect

Submit Feedback

Reason (optional)

Please explain why you think this analysis is correct or incorrect...

📄 treaty.pdf

⚠️ IT and Cyber Risk

Losses arising, directly or indirectly, out of: (i) loss of, alteration of, or damage to or (ii) a reduction in the functionality, availability or operation of a computer system, hardware, programme, software, data, information repository, microchip, integrated circuit or similar device in computer equipment or non-computer equipment...

Clauses & Exclusions Library

Modular and Extensible Approach

Clauses & Exclusion Library

IT and Cyber Risk

Law Enforcement Vehicles

Marine Cyber Exclusion Clause

Marine Technology, Submarine Cables

Military Vessels

NBC and NBCR Terrorism

Nuclear Energy Risk

DEFINITION

IT and Cyber Risk Exclusion

The exclusion of coverage for losses caused directly or indirectly from malicious and non-malicious cyber events (cyber risks).

The clause can also be titled IT Hazard Clarification Clause or IT and Cyber Clarification Clause (in the DACH market).

Preferred Cyber exclusion: LMA 5410

Criteria for acceptable Cyber exclusions:

The intention of the Cyber exclusion is to exclude cyber risks from whatever cause (including cyber acts and cyber incidents)

cyber act (malicious) = unauthorised, malicious or criminal act involving a computer system
cyber incident (non-malicious) = any error,

EXAMPLES

"Cyber Loss Limited Exclusion Clause IUA 09-082

Notwithstanding any provision to contrary within this contract, this contract excludes any Cyber Loss.

Cyber Loss means any loss, damage, liability, expense, fines or penalties or any other amount directly caused by:

the use or operation of any Computer System or Computer Network:

the reduction in or loss of ability to use or operate any Computer System, Computer Network or Data;

access to, processing, transmission, storage or

Clause extraction and tagging

Assess compliance, clarity, and risk exposure by flagging unclear or missing clauses against regulatory and internal guidelines

Provide reasoning, ensure transparency, maintain user interactions, audit trails, version histories for all assessments to ensure transparency and governance. Facilitate **human-in-the-loop** workflow

Wording Analysis Assessment

Type	Clauses & Exclusions	Found	Page	Confidence Level
Exclusion	Information Technology Hazards	✓	14	Low
Exclusion	IT and Cyber Risk	✓	14	Medium
Exclusion	NBC and NBCR Terrorism	✓	6	High
Exclusion	Nuclear Energy Risk	✓	11	Medium

IT and Cyber Risk Found: ✓ 14 of 39

AI Reasoning (hover to display full detail)

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Slavia.pdf 22 Clauses & Exclusions detected

Page 14

IT and Cyber Risk

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Inovace

Collaboration of Business and AI Tech Experts

Business Expertise

- Define strategic priorities & **use cases**
- Provide **domain knowledge**
- Set KPIs tied to **business outcomes**
- Ensure **adoption** across teams & customers

Shared Roles & Responsibilities

- Use Case Definition
- Data Understanding
- Validation & Testing
- Governance & Risk
- Change Management
- Continuous Improvement

Data/Tech Expertise

- Assess **data quality** & readiness
- **Build and validate** models / AI systems
- Ensure **scalability**, integration & automation
- Implement **security**, compliance & governance

Kooperativa	
Stodská nemocnice, a.s.	strana 1/1
Hradecká 600, 333 01 Stod, fax: 377 199 010 25 -01- 2022	
IČ: 26561086, info@nemocnice-stod.cz, www.nemocnice-stod.cz	
Chirurgické oddělení	
KANCELÁŘ STŘÍBŘEC MUDr. David Smíd, Ph.D.	
Identifikace	Tel. 377183853
Narození	Pohlaví
0	Plece
F	205
Adresa	
23.7.2021 09:31 Návštěva ambulance / ordinace	
Nynější onemocnění: Dnes se omylem poranila o rozbitou skleníku v mezi prstí IV.-V. PFK	
Objektivně: Rezná rána v oblasti meziprstí IV.-V. prstu, délka cca 30 mm, hloubky cca 3 mm, nezasahuje hluboké struktury. Rána čistá. Hybnost intaktní. Proklení v normě. Inverzce intaktní.	
Dg: vltava scissum manus lat.dx.	Th: toilet, LA 1% Mesokainem, revize,
sutura kůže monoflamentem, kryti s VT	
Doporučení: Kryti ponechat 2 dny, poté opřesrovat a převázat s Betadine roztokem. Kontrola chingem, dle místa bydlitě v pondělí. Při zhoršení stavu kontrola ihned. Poučena.	
Konzultováno s prim. MUDr. Šmidem	
Kontrola a převázy jsou ve všechnách dnech 7-12 hod.	
MUDr. Tomáš Kanvička	
46 Stodská nemocnice, a.s. 46, Hradecká 600, 333 01 Stod, fax: 377 199 010 001 Příjem pacientů 013 Odb. - MUDr. Tomáš Kanvička Chirurgická ambulance tel. 377183853	
13,8 cm	
Měsíční - KUD 380000	
27.07.2021	
-5-08-2021	

Docteur Olivier ROBERT
CENTRE MEDICAL DES BERGERS
38750 ALPE D'HUEZ FRANCE
tel : 00 33 4 76 80 69 29

MEDICAL REPORT

DATE : 18/1/2023

SURNAME : NAME : K DOB :

TEL :

HOME ADDRESS :

Country :

CIRCUMSTANCES : SKI ACCIDENT

ALCOHOL/DRUGS INVOLVED OR NOT : YES NO

DIAGNOSIS : FRACTURE PI 5° sur main g.v.

TREATMENT : dictor main

immobilisation attelle thermofonctionnelle
premier secours technique 60/70

FURTHER TREATMENT RECOMMENDATIONS :

Quoi que ce soit la main

ADVISED FORM OF TRANSPORT :

normal car-train-bus

ambulance

normal flight

air ambulance

sitting position

lying position

leg elevated/leg rest/extraseat

ASSIST REQUIRED : no assist

civil person

nurse

doctor

Can the patient be transported home ? YES NO

Should be the patient transported to the hospital ? YES NO

TOTAL COST OF TREATMENT :

PAID BY THE PATIENT

395€

Stav analýzy: Počet vyhotovených analýz: Počet v analýze:
 Všechny požadavky zpracovány 1 0

VÝSLEDKY ANALÝZY

Stav: Zadal: Datum zadání: Vyhotoveno:
 Úspěšně dokončeno Automat Život [svc_aut5] 03.07.2025 13:00:10 03.07.2025 13:00:22

Jméno: Rodné číslo: Datum úrazu: Alkohol:
 Dalibor F  25.06.2025 **bez alkoholu**

Popis úrazu: Poraněná část těla: Léčebné období: Dopravní nehoda:
pořezal kotoučovou pilou v práci na pravé ruce pravá ruka - Ne

Popis ošetření:

Sutura rány provedena za aseptických kautel., Inadine a krytí doporučeno doma v suchu a čistotě., Fyzické šetření poranění končetiny, analgetika doporučena.,
Převaz za 2 dny cestou praktického lékaře (PL)., Pokud tetanus více jak 5 let prosím přeočkovat. Stehy odstranění za 7-10 dní cestou PL.

ČASOVÁ OSA

**25.06.2025**

Vznik úrazu

25.06.2025**Diagnóza:** S618 Otevřená rána jiných částí zápěstí a ruky**Výšetření:** sutra rány, inadine krytí**Léčba:** za aseptických kautel, v la mesocain 1%, provedena sutura rány, inadine, krytí dop. doma krytí v suchu a čistotě, fyz šetření poranění končetiny, analgetika dp, převaz za 2 dny cestou PL, pokud více jak 5 let prosím přeočkovat, stehy ex za 7-10 dní cesotu PL**Lékař:** I Katarína**Lékařská zpráva:**  Zdr. poj.: 205 Ur - uryenun prgem !! T/T :PHPNC č Nemocnice Kyjov Nemocnice Kyjov, příspěvková orga [Zobrazit více]

Vysvětlitelnost, audit

1 EASY

According to the medical documentation, the patient sustained a laceration on the head on October 28, 2021, which was treated with suturing, and the stitches were later removed. There are no mentions of any complications following the initial medical examination; therefore, this is not a diagnosis with complications.

1 EASY

According to the medical documentation, the patient sustained an occupational injury in which he pinched his left hand with a wood clamp, resulting in a longitudinal wound between the second and third fingers. The wound was treated by revision without structural damage, rinsing with hydrogen peroxide, and closure with sutures. In subsequent visits, no complications were mentioned; only dressing changes were performed, and finally, the patient was advised to apply an ointment to soften the scab. Therefore, the classification is sutured wound without complications.

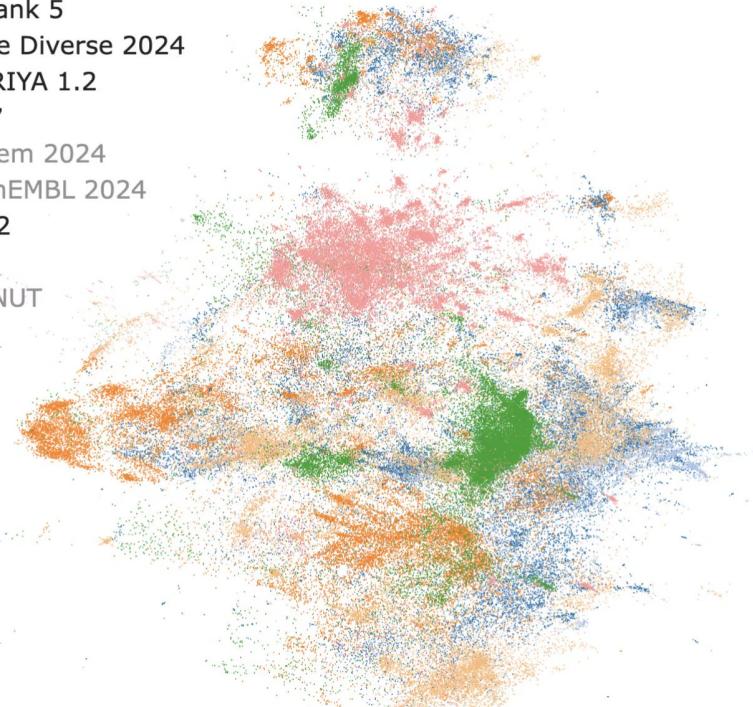
1 EASY

According to the medical documentation, the patient sustained a cut wound on a finger, which was treated with suturing (adaptive revision). During the course of treatment, complications were observed in the form of inflammation and the administration of the antibiotic Augmentin. Since this is a sutured wound with complications, the diagnosis is classified as Category 4.

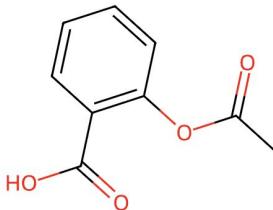
1 EASY

According to the medical documentation, the patient sustained a wound on the lower leg that was treated with suturing (revision and stitches). Later, complications occurred in the form of wound dehiscence and necrosis. The presence of complications is confirmed by the use of terms such as "dehiscence," "coating," and "necrosis."

- ChEMBL 34
- DrugBank 5
- eXplore Diverse 2024
- CHEMRIYA 1.2
- GDB17
- PubChem 2024
- SureChEMBL 2024
- ZINC22
- ChEBI
- COCONUT
- FooDB



Query Molecule
Query Molecule



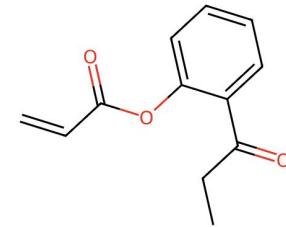
1.00

CC(OC1C(C(=O)O)=CC=C1)C(=O)O

hERG: 0 AMES: 0.001

DILI: 0.013 LD50: 2.161

Aurigene Virtual Library
AV002779615534-DMCH



0.80

C=CC(=O)Oc1ccccc1C(=O)O

hERG: 0 AMES: 0.154

DILI: 0.129 LD50: 1.938

hERG : hERG Inhibition (%)

Green 0 - 0.3 (Low risk) Yellow 0.3 - 0.7 (Medium risk) Red > 0.7 (High risk)

AMES : AMES Mutagenicity (%)

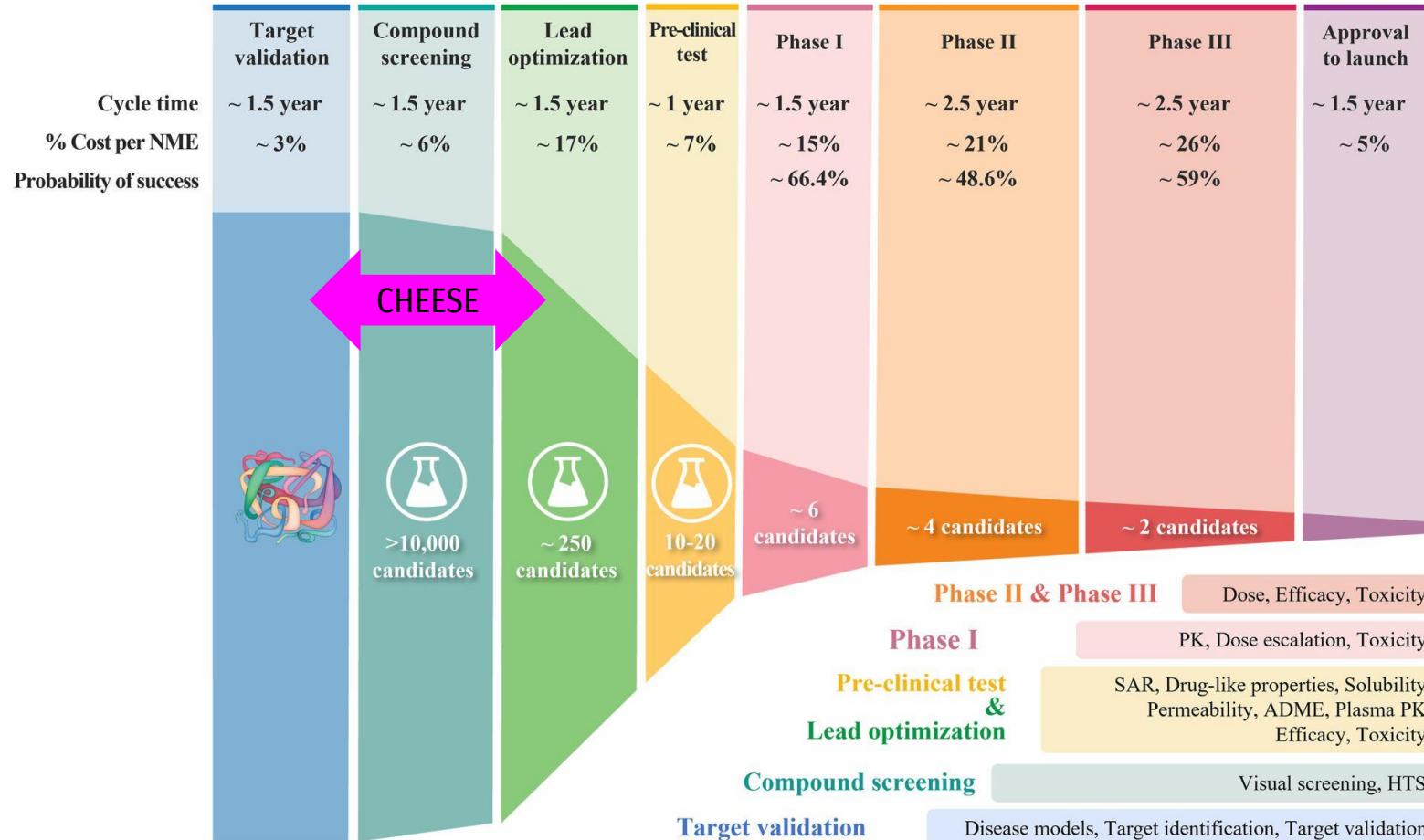
Green 0 - 0.3 (Low risk) Yellow 0.3 - 0.7 (Medium risk) Red > 0.7 (High risk)

DILI : Drug Induced Liver Injury (%)

Green 0 - 0.3 (Low risk) Yellow 0.3 - 0.7 (Medium risk) Red > 0.7 (High risk)

LD50 : LD50 in Rat (-Log mol/kg)

Green > -2.4 Red < -2.4



zolpidem

Analyze >

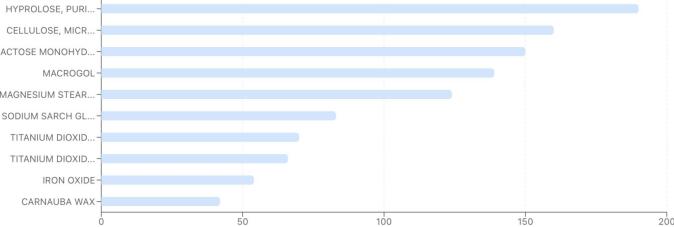


Substance Frequency

Substances to show

HYDROLOSE, PURIFIED
 CELLULOSE, MICROCRYSTALLINE
 LACTOSE MONOHYDRATE
 MACROGOL
 MAGNESIUM STEARATE
 SODIUM SARCH GLYCOLATE
 TITANIUM DIOXIDE
 TITANIUM DIOXIDE (E171)
 IRON OXIDE
 CARNAUBA WAX

+ Add substance



This chart displays the frequency of excipients found in pharmaceutical products.

Insights for ZOLPIDEM TARTRATE

Found 183 pharmaceutical products across 6 countries

Filters

Active Ingredient Variant

 ZOLPIDEM TARTRATE

APIs

 ZOLPIDEM TARTRATE
 ZOLPIDEM

Form

Geographical Distribution



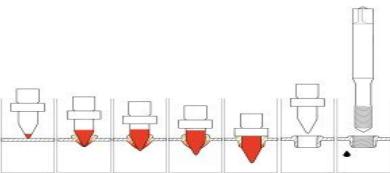
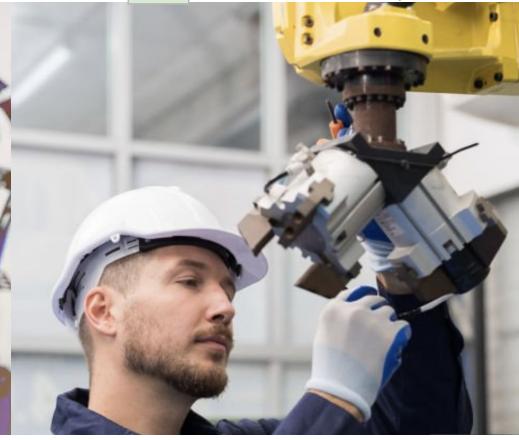
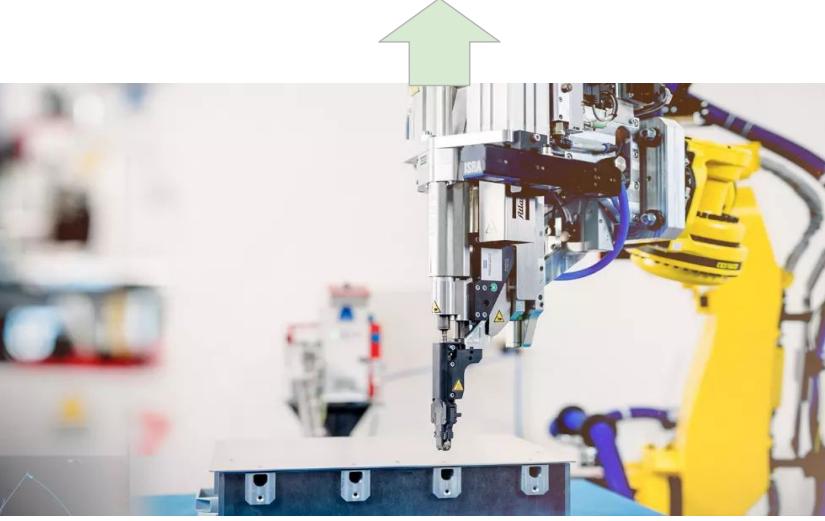
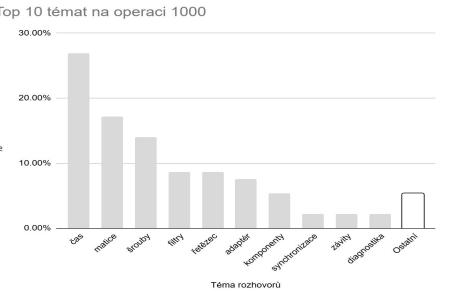
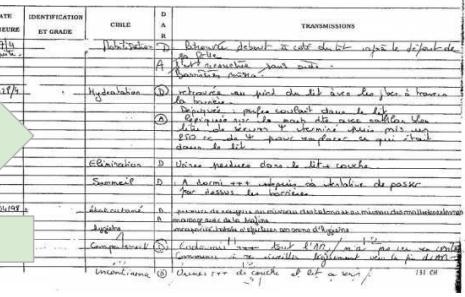
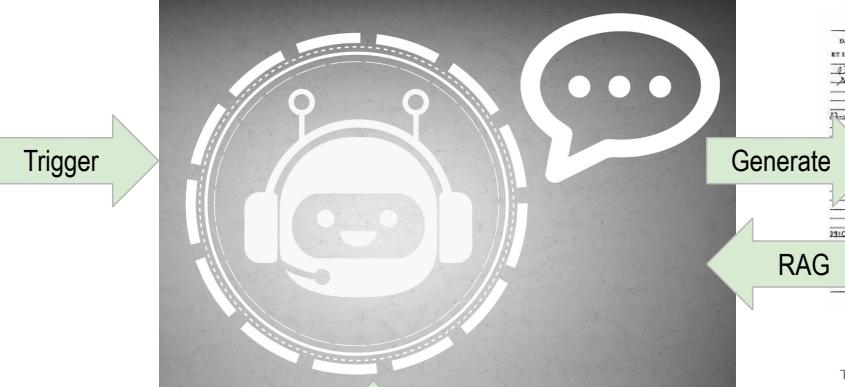
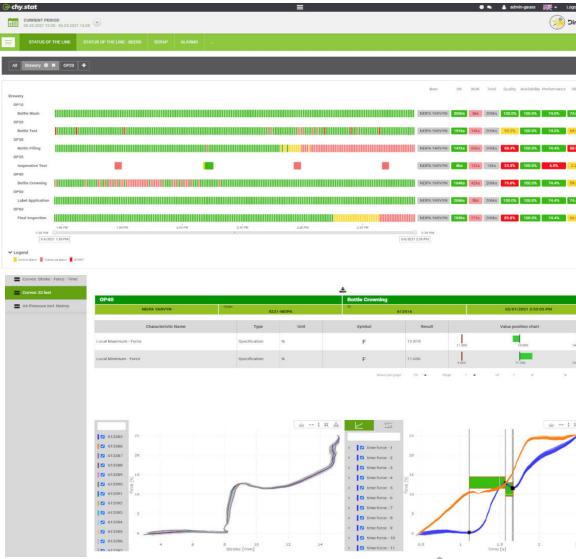
Products clusters based on composition similarity



Packaging

- Child resistant HDPE bottle
- Pvc-al blister
- Clinical pack
- HDPE container with child-resistant, tamper-evident PP closure
- Film-coated tablet
- Orodispersible tablet
- Sublingual tablet
- Tab.
- Oral drops, solution
- Oral solution
- Orally disintegrating film/film agent/internal use
- Drops for oral administration

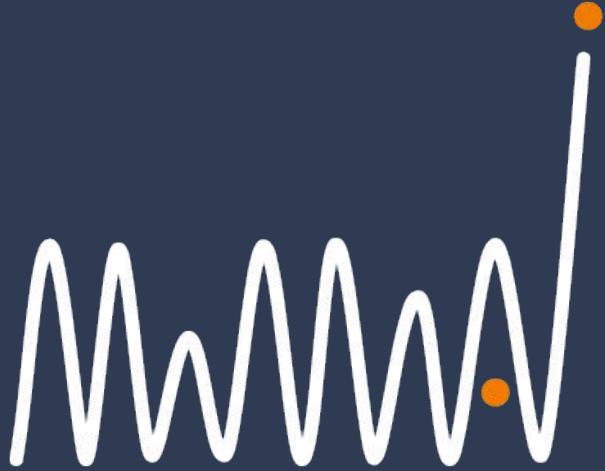
Demografie



Flowdrill®

Doménová adaptace, finetuning

behalter	hokejka	CMC
zetovka	motýlek	gappad
weber	tucker	ausheber
anšlus	belhof	olapování
šimsy	bracket	šteft



M A M A A I

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