



Azure AI, ML and OpenAI Opportunities



The AI technology is here

Forbes

What ChatGPT And
Generative AI Mean
For Your Business?

COMPUTERWORLD

Microsoft's new Teams Premium tier
integrates with OpenAI's GPT-3.5

MarketWatch

Microsoft's Nadella: AI is taking
the computer age from 'the
bicycle to the steam engine'

The Washington Post

Meet Windows Copilot, the AI
coming to help you understand
your PC

techradar.pro

Microsoft Fabric looks to offer the
next generation of AI analytics for
your business

TechCrunch

Microsoft's Azure AI
Studio lets developers
build their own AI 'copilots'

VentureBeat

Microsoft announces generative AI-powered
Copilot 365 to 'change work as we know it'

CNN BUSINESS.

Real estate agents say they
can't imagine working without
ChatGPT now

THE VERGE

Microsoft's AI-powered Copilot is
getting plug-ins



Artificial Intelligence

Machine Learning

Deep Learning

Generative AI



Artificial Intelligence

The field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence



Machine Learning

Subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions



Deep Learning

A machine learning technique in which layers of neural networks are used to process data and make decisions



Generative AI

Create new written, visual, and auditory content given prompts or existing data

What does Generative AI do?



OpenAI



Microsoft

ChatGPT

Conversation

DALL·E

Images

Codex

Code

What does Generative AI do?

GPT-3

Prompt:

Write a tagline for community safety

Response:

Secure your world, empower your safety - community safety starts with you.!

Codex

Prompt:

```
Table citizens, columns =  
[CitizenId, FirstName, LastName,  
Company, Address, City, State,  
Country, PostalCode]
```

Create a SQL query for all
Citizens in Canada named Laura
query =

Response:

```
SELECT *  
FROM Customers  
WHERE Country = 'UA' AND FirstName  
= 'Олена'
```

DALL·E

Prompt: Diverse riders on the bus

Response:



Note: all examples are actually written in ChatGPT or other services

Azure OpenAI Service

Infuse OpenAI into your tech
Heavily customizable
The sky is the limit
Available now

Copilot ecosystem

OpenAI prebuilt into Microsoft suite
SaaS experiences
In various stages of availability



OpenAI Flavours in the Microsoft ecosystem





Enrich

Organizational core competencies and differentiators

Use AI to enhance the way Police Officers work on a daily basis



Streamline and Automate

Support tasks, repeated or manual processes

Internal communications, legal, HR, training



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Adapt and respond

Anticipate new challenges that others introduce

Dealing with all the new things bad people can do



Enrich: what is happening

Organizational core competencies and differentiators

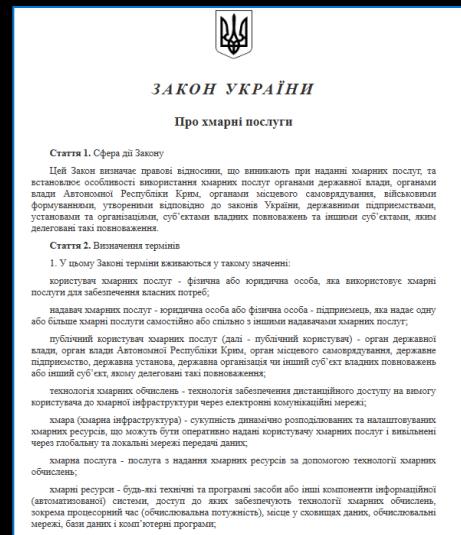
Use AI to enhance the way Police Officers work on a daily basis

Police agencies in the United States, UK and Australia are leveraging AI to make information more consumable for investigators – so they can apply less energy to manual tasks and more energy to human tasks

- translating and summarizing BWC footage and transcriptions
- summarizing and prioritizing case data for cold case investigations
- ingesting and categorizing disparate banking records in financial crimes investigations

Azure OpenAI Document Processing Automation

Understanding Law



Case Study: law on use of cloud services needs to be translated, summarized and some questions answered

LAW OF UKRAINE

About cloud services

Article 1. Scope of the Law

This Law defines the legal relations arising from the provision of cloud services and establishes the specifics of the use of cloud services by public authorities, authorities of the Autonomous Republic of Crimea, local governments, military formations formed in accordance with the laws of Ukraine, state enterprises, institutions and organizations, subjects of power and other entities to which such powers are delegated. The Law establishes the requirements for the

Use of OpenAI for direct translation, summarization and Q&A on the complex unstructured document

Automatic Translation of the original document defining corpus of the text to be used.

Summarize text in English and answer could we use public cloud services?

OpenAI Instructions that we added to manage the flow of execution and direct the answers

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Yes, we can use public cloud services, as long as they meet the requirements set out in the Law.

Output: summarizing the complex text to the required summary, but also answering the specific question.



Classify (topics)
Combine
Chunk (textwrap)
Tokenizer (4K tokens)
Verify length
Summarize



Classify (topics)

Combine

Chunk (textwrap)

Tokenizer (4K tokens)

Verify length

Summarize




UKRAINE – GEOPOLITICAL UPDATE

Tues/Thurs release | Saturday, October 22, 2022

CLASSIFICATION LEVEL: UNCLASSIFIED

TOP ISSUES

- The ongoing conflict in Ukraine between Russian and Ukrainian forces, and the potential for further escalation
- The possibility of a "dirty bomb" being used in the conflict, and the potential consequences of this
- The increased nuclear activity and rhetoric around the world, and the potential consequences of this

OTHER ISSUES



HUMANITARIAN & Food SECURITY

The text discusses the need for the international community to take action to stop Russia from committing crimes against Ukrainian prisoners. It also highlights the USNS Comfort's mission to provide medical assistance and disaster relief to five partner nations in the Caribbean, Central and South America.



SANCTIONS

The international human rights community has called on the European Union, the Council of Europe, and the Organization for Security and Cooperation in Europe (OSCE) to take immediate action to stop Russia from committing crimes against Ukrainian prisoners. Representatives of the international community met via video conference to discuss access to places where Ukrainian prisoners are being held in Russia and Russia-controlled territories, and to ensure their rights. The representatives also called on the international community to take immediate action to stop crimes against Ukrainian prisoners, including through the imposition of sanctions.



INTERNATIONAL ASSISTANCE

The Irish government is seeking additional accommodation for Ukrainian refugees arriving in the country. Taoiseach Micheál Martin said that the government would consider a range of measures to respond to the situation when ministers meet this Monday, including the possibility of increasing the 400 a month payment to households that accommodate refugees. Sir Rod Stewart has said he will dedicate an anti-war song to Ukraine during his upcoming tour, and has been supporting a family of seven Ukrainian refugees by renting them a home and paying their bills.



MULTILATERAL

The international human rights community, UN structures, the EU, the Council of Europe, and the OSCE are called on to take immediate action to make Russia stop committing crimes against Ukrainian captives. A video conference is held with representatives of international human rights watchdogs to discuss access to places where Ukrainian POWs are kept in Russia and Russia-controlled territories, and to ensure their rights. The representatives are called on to take immediate action to stop crimes against Ukrainian prisoners.



JUSTICE AND ACCOUNTABILITY

The international human rights community is calling on Russia to stop committing crimes against Ukrainian captives. A video conference was held with representatives of international human rights organizations to discuss access to places where Ukrainian prisoners are being held in Russia and Russia-controlled territories, and to ensure their rights. The conference called on representatives of the international human rights community, UN agencies, the European Union, the Council of Europe, and the OSCE to take immediate action to stop the crimes against Ukrainian prisoners.



OUTREACH

NEXT 3 MONTHS

June

July

August

June 3-3: 3+1 Canada-Baltics Foreign Ministers Visit, Ottawa

June 6-10: Summit of the Americas in LA, US (PM, MNA)

June 9-10: OECD MCM (MNT)

June 13-14: WTO MC12 (MNT)

June 13-14: UN Security Council meeting (DMT)

June 16-17: NATO Defense ministers' meeting

June 23-25: CHOGM, Kampala, Rwanda (PM)

June 26-28: G7 Leaders' Summit, Germany (PM, DMT)

June 29-30: NATO Summit, Madrid, Spain (PM, MNA)

July 4-5: Ukraine Recovery/Reconstruction Conference, Switzerland

July 7-10: G20 Sherpa Meeting (DME)

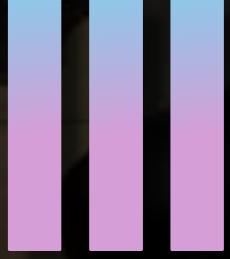
July 7-8: G20 Foreign Ministers, Bali, Indonesia (MNA)

July 13-15: HLPF on Sustainable Development – Minsk, Belarus (MNT)

July 13: The Netherlands & ICC to co-host Ministerial Conference on accountability in Ukraine, The Hague (state TBC)

August

UNOFFICIAL USE ONLY – Generated by GPT3
 Ukraine Strategic Action Team (EU) | Please send key input by email: UkraineStrategicActionTeam@international.gc.ca



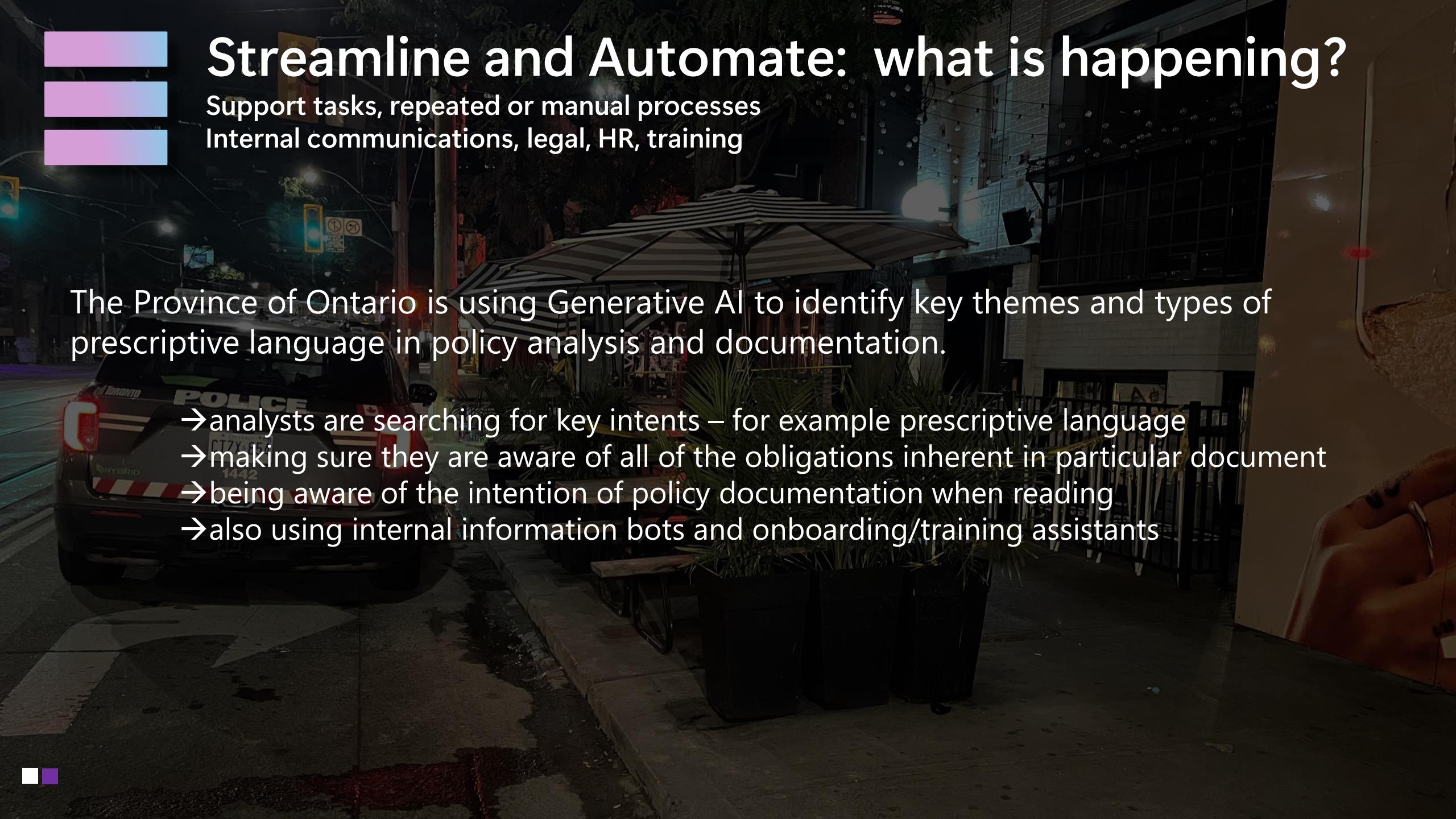
Enrich: what is possible

Organizational core competencies and differentiators

Use AI to enhance the way Police Officers work on a daily basis

Generative AI could have multiple other use-cases in policing operations since it is inherently good at rationally consuming a large amount of data and presenting it back in the way its human partner needs

- speech based AI responding to non emergency lines
- predictive law enforcement
- using video to analyze crowd movement
- linkage analysis in intelligence
- thinking of alternate ways to summarize the same set of information
- reviewing and redacting high volumes of video information



Streamline and Automate: what is happening?

Support tasks, repeated or manual processes

Internal communications, legal, HR, training

The Province of Ontario is using Generative AI to identify key themes and types of prescriptive language in policy analysis and documentation.

- analysts are searching for key intents – for example prescriptive language
- making sure they are aware of all of the obligations inherent in particular document
- being aware of the intention of policy documentation when reading
- also using internal information bots and onboarding/training assistants

Azure OpenAI Document Processing Automation w/ Annot

Understanding

Republika Hrvatska
Općinski sud u Metkovici
Metković

U IME REPUBLIKE I

PRESUDA

Općinski sud u Metkovici, po sucu Stjepanu
kao zapisičaru u prekršajnom postupku protiv okri
prekršaja iz čl. 293. st. 1. i čl. 176. st. 5.Zakon o sigu
181. st.1.5.Prekršajnog zakona, dana 10. siječnja 2
presudio: J

ODBILA SE OPTUŽBA protiv okrivljenika. Ta
iz čl. 293. st. 1. i čl. 176. st. 5. Zakon o sigu protiv
u 700 sati u mjestu. Rešljana upoznaje osobnim
pravcem istoka te se kretao južnom prometom tra
Račva te dolaskom do mjetra dopadajuša nije prilag
ceste i stajnu površine kolnika zbog čega je u nj
vozilo kojim je sletio sjeverno van kolnika na travn
bočnim dijelom vozila udario u zimzelenu živu og
vozilom vraća na kolnik ceste i slijede južno van k
dijelom vozila udara u hrpu kamenja pored ceste, te
u tri smjerokazala stupića koja je stomio pri tlu i i
nesreće napustio mjesto prometne nesreće a da
podatke o sebi i vozilu kojim je uzrokovalo prom
osteceno vozilo sjeverno van kolnika ceste u mjestu
od oštećenog vozila

obrazloženje

Postaja granične policije Vrgorac je pod br.
2020.godine podnijela je obavezni prekršajni nač
je opisan u izreci ove presude.

Case Study: understanding the judgement on facts and processing the facts to understand the context and extracting the context information.

What was missing from the answer?



what did police do?



According to the given text, the Border Police Station Vrgorac submitted a mandatory misdemeanor order against the accused for the offense described in the verdict of this judgment.



under which number order was submitted?



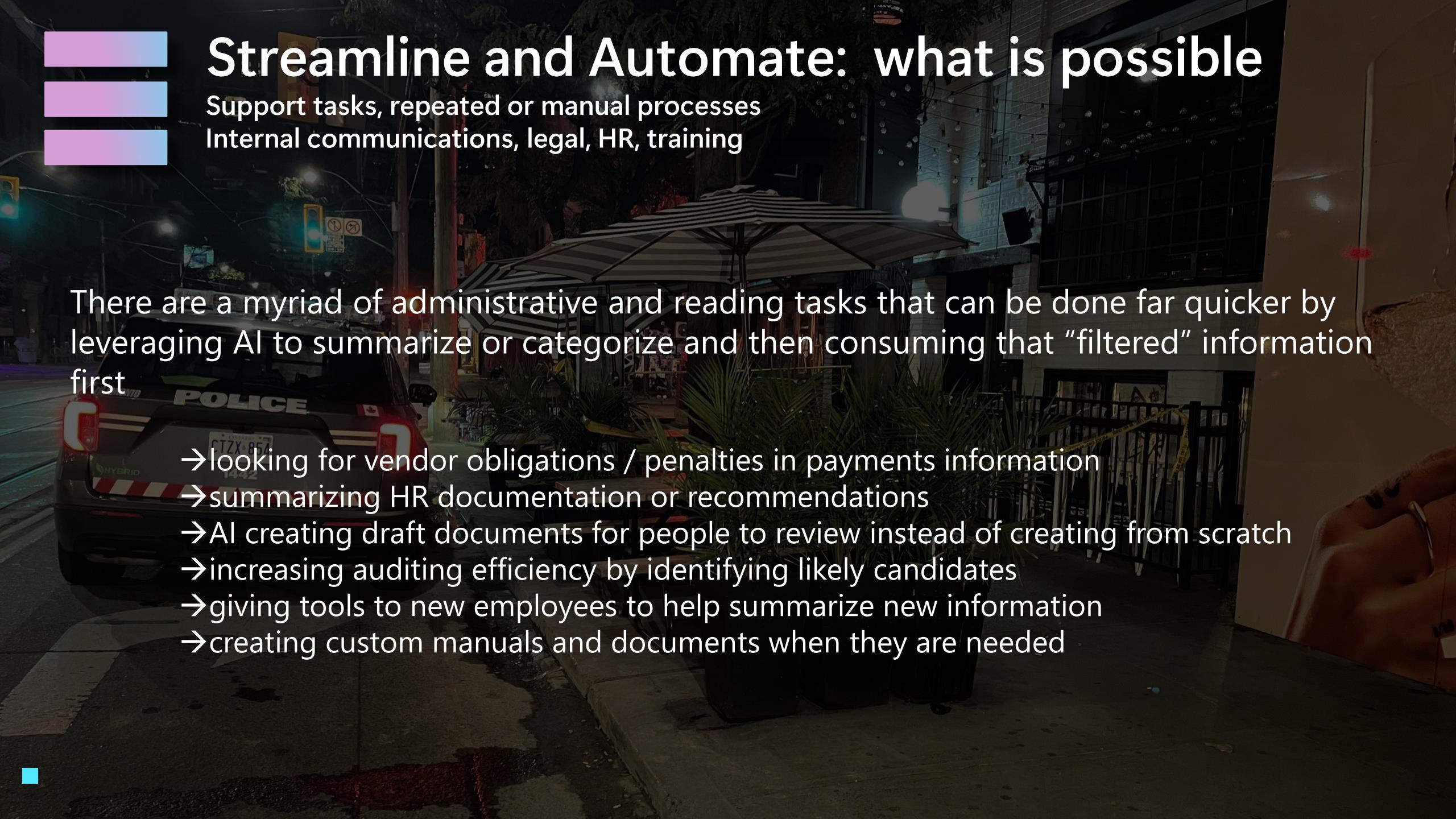
The order was submitted under number "511-12-35/05-4-30-1/2020" as mentioned in the text.



Automatic Summarizing without the evidence of translation

OpenAI Instructions that we added to manage the flow of execution and direct the answers (with error in Q)

Output: summarizing the complex text to the required summary



Streamline and Automate: what is possible

Support tasks, repeated or manual processes

Internal communications, legal, HR, training

There are a myriad of administrative and reading tasks that can be done far quicker by leveraging AI to summarize or categorize and then consuming that "filtered" information first.

- looking for vendor obligations / penalties in payments information
- summarizing HR documentation or recommendations
- AI creating draft documents for people to review instead of creating from scratch
- increasing auditing efficiency by identifying likely candidates
- giving tools to new employees to help summarize new information
- creating custom manuals and documents when they are needed



Adapt and respond: what is happening?

Anticipate new challenges that others introduce

Dealing with all the new things bad people can do

Bad actors are creating more sophisticated, more believable versions of reality that are harder to identify even for tech savvy individuals.

- impersonating loved ones in simulated ransom situations
- generating fake images and videos that look like real news
- drafting more believable phishing and scam emails
- being more targeted by generating more insights about the intended victim
- lowers the bar on "who can be a hacker"
- cyber stalking and new ways to exert control (ie human trafficking scenarios)
- generation of new illicit content



Adapt and respond: what does it mean?

Anticipate new challenges that others introduce

Dealing with all the new things bad people can do

Police agencies will need to be aware of this new standard and work to educate people on what to look out for. They will also need to use similar tools to sift through new kinds of fraudulent information that will require greater time and energy to understand.

- impact will be felt disproportionately in minority and marginalized communities
- requires education and open minds
- creative multidisciplinary partnerships are more important than ever

Other Sample Generative AI Use Cases by Business Area

Building Operations

- Intelligent remediation/troubleshooting assistance
- Training guide creation
- SOP checklist creation
- Maintenance schedule creation
- Equipment guide summarization

Supply Chain

- Invoice/PO Processing – Augment AFR for Targeted Data Extraction
- Vendor contract analysis
- Vendor communication summary

IT

- Tier 1 service agent (enterprise IT bot)
- Incident report analysis
- Process document creation
- Knowledgebase article drafting
- Ticket classification/routing

Legal

- Contract analysis (summarization, compliance violations, clause extraction)
- Summarization (litigation, regulatory filings, etc.)
- Draft document generation (corporate policies, privacy docs, etc.)

EHS

- Safety document creation/summarization
- Checklist creation for EHS procedures
- Semantic search for safety docs
- Internal safety bot – always on response to safety issues

Marketing

- Copy creation (website, social media, email, etc.)
- Competitor summarization
- Sales collateral creation (presentations, brochures [text and image])
- Customer pulse – social media/user review summarization

HR

- Employee materials summarization (internal enterprise chat bot)
- Employee pulse – summarization of surveys, exit interviews
- Job posting creation/curation

Customer Service

- Call center analytics
- Customer response creation (email/chat)
- Service request summarization
- Customer-facing support bot
- FAQ/troubleshooting guide creation