





# Creating the new future of capture with **IBM Intelligent Content Processing**



**Mira Kim** | IBM Offering Manager - Capture New York City | June 6, 2019



Automation 2019



## Agenda

• Introduction: Intelligent Content Processing today brings together traditional capture, AI, Machine Learning and RPA for document extraction classification and rapid application development – Exploring the possibilities with: Datacap Insight Edition, Business Automation Content Analyzer, and RPA

Speaker: Mira Kim, IBM

• Customer Case Study: Bank of Montreal builds a brand new way to engage with customers on Business Automation Content Analyzer

Speaker: Brian Chan, Bank of Montreal

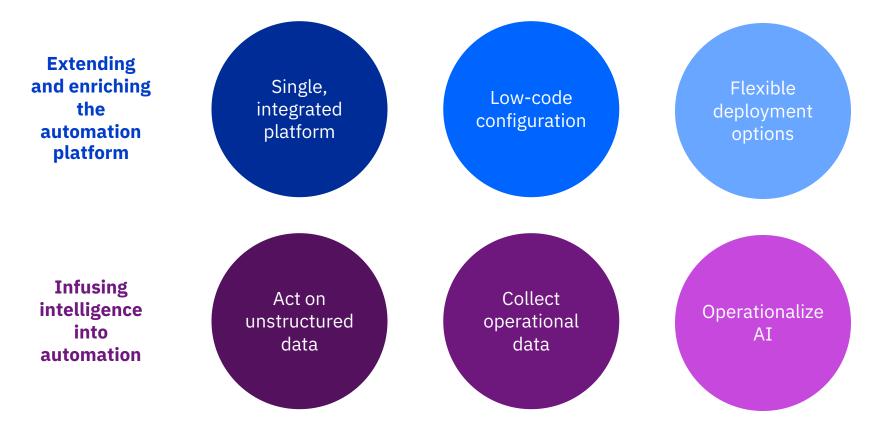
Overview and Demo: Content Analyzer

Speaker: Mira Kim, IBM

Overview and Demo: RPA and Content Analyzer

Speaker: Stu Leibowitz, IBM

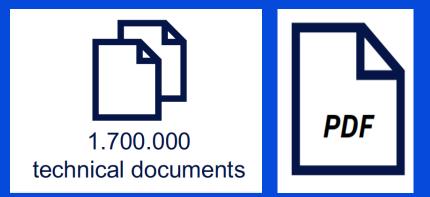
# We are focused on extending the platform and infusing it with **Intelligence**



#### International Airline

### Maintenance Repair & Overhaul







Lots of information but hard to use and analyse automatically



Manual data collection is time consuming and expensive

900 Suppliers	150K pages per month	Up to 1000 parts per doc

#### 11 ILLUSTRATED PARTS LIST

IBM Au

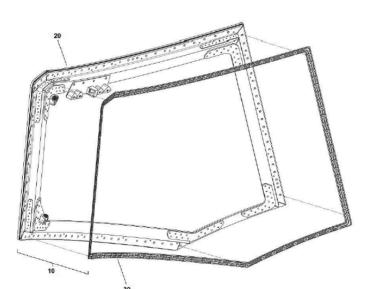
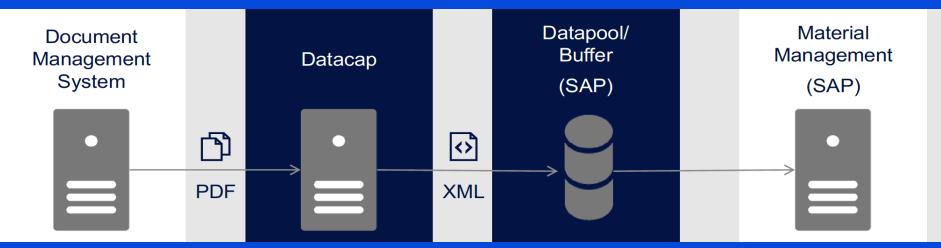


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- Item not illustrated

Solution – Datacap Insight Edition

## **Productivity** Cost Savings



#### International Airline

NEXT...

# **MOBILE CAPTURE**



Digitizes worldwide shipment receipt

> parts supplies materials

Streamlined, transparent process Captures and reads data from package labels To Receiving cross weight customs status customer carrier etc.

# Customer Feedback Program



# Calling all applicants

- We want to work with you to further define and refine our offerings; IBM Content Analyzer and IBM Mobile Capture.
- We want to understand your use cases and needs, and make sure you'll derive maximum benefits from our products. As we progress, we would like you to try it out and give us your feedback.
- Objectives
  - Give you access to the service to try with your use case and documents
  - Gather feedback on effectiveness, gaps and user experience

## Contacts

- For IBM Business Automation Content Analyzer, contact
  - Mira Kim, IBM Offering Manager Content Analyzer <u>mira.kim1@ibm.com</u>
- For IBM Mobile Capture, contact
  - Hanson Shen, IBM Offering Manager Mobile <u>hansonshen@ibm.com</u>





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### Engaging customers with Business Automation Content Analyzer



**Brian Chan** | Product Lead | Bank of Montreal New York City | June 6, 2019







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# AI / Prediction

## Accuracy





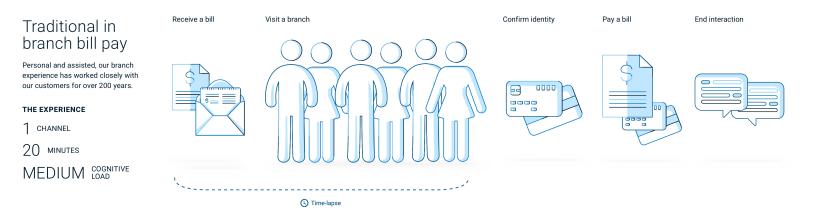


## **Bill Payments**

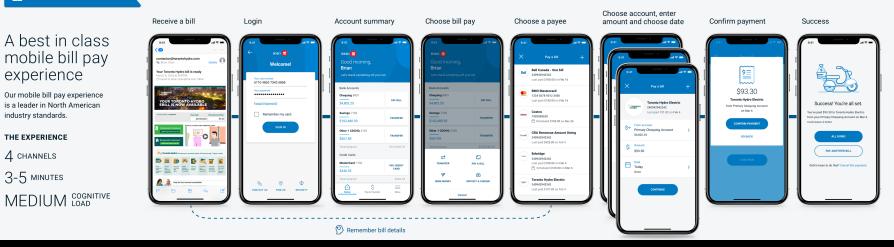
### **Problem:** Late bill payments



Unhappy customers visit branches and call centres more often



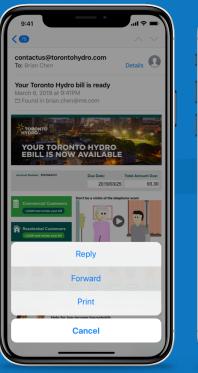
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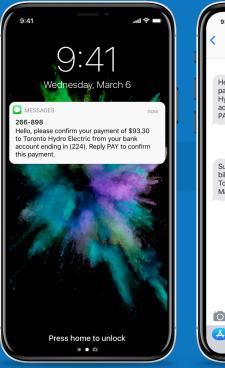


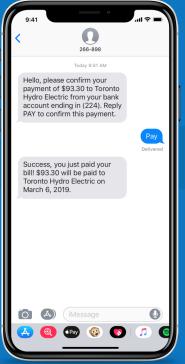


### Introducing: BMO QuickPay<sup>™</sup>









#### PATENT PENDING

### **BMO QuickPay:** Benefits





#### **Eye On Innovation Award 2018** Category & Overall North America Region Winner





# Thank you



#### Brian Chan Product Lead

/in/BrianChanBMO







#### Business Automation Content Analyzer Overview



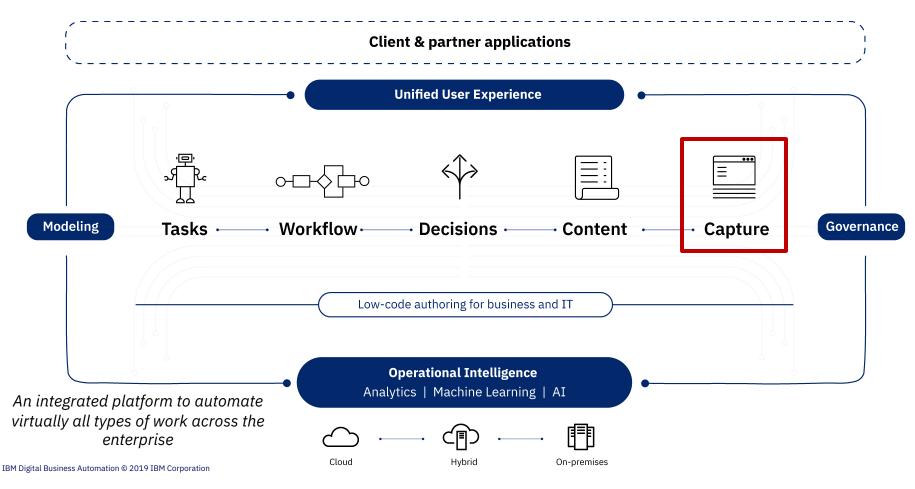
**Mira Kim** IBM Offering Manager - Capture NYC | 06.05.2019



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#### IBM Automation Platform for Digital Business



#### **IBM Business Automation Content Analyzer**



# Classify and extract data from documents

Classifies, extracts fields, and bursts image, pdf, and word documents



#### AI Inside

Machine learning removes dependency on form templates for different document layouts



#### Empower business users

Low code setup does not require a technical expert

#### Many Business Processes Rely on Documents

#### • Banking

- Account opening
- Account servicing
- Lending

#### • Insurance

- New policy
- Policy servicing
- Claim investigation

#### Telecom

- Account opening
- Contracts analysis

#### • Government

- Criminal justice
- Public records

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#### • Life Sciences

Clinical

#### Automotive

Accelerate customer Transactions

#### Cross Industry

- Human Resources
  - On Boarding
  - Request Processing
- Legal
  - M&A Due Diligence
- Compliance
  - Data Privacy

#### • And many more...

### The data is locked inside documents



A person needs to read, understand and decide – which is expensive, time consuming and error prone.

#### IBM Business Automation Content Analyzer

Simple and smart software service configured by a Business Analyst

IBM Business Automation Co	ntent Analyzer		
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City			
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		Value: 7389	
Description ACIS GeForce GTX Entel Core i7 3.7GHz	Price 520.00 380.00	Cancel Learn	

#### What is Content Analyzer?





Intelligent and flexible capture and analysis

Specialized services to classify and extract information from structured and unstructured documents

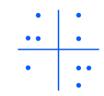


Extend the value of your current applications quickly with a simple API call, built on microservices



Cloud native application

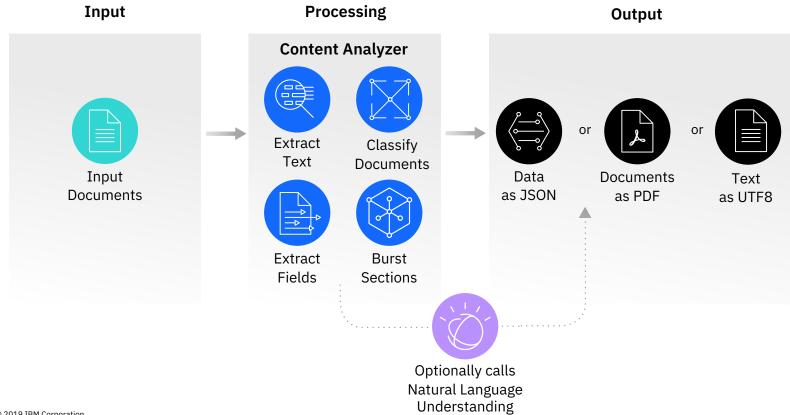
Designed, developed and deployed in the IBM Cloud as SaaS or in your own cloud environment in virtualized containers



#### AI algorithms applied to your data

Get a more complete picture of the data held in your documents and integrate into your automation journey

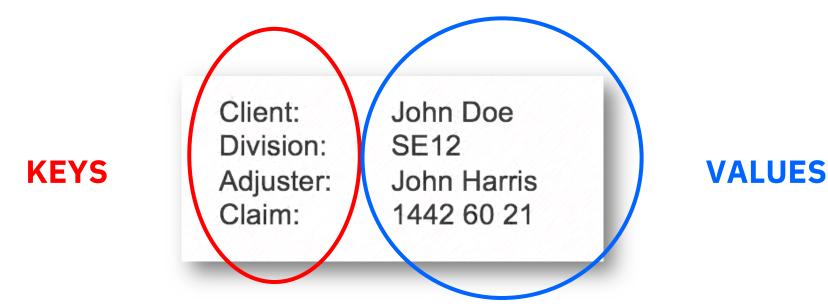
#### What does Content Analyzer do?



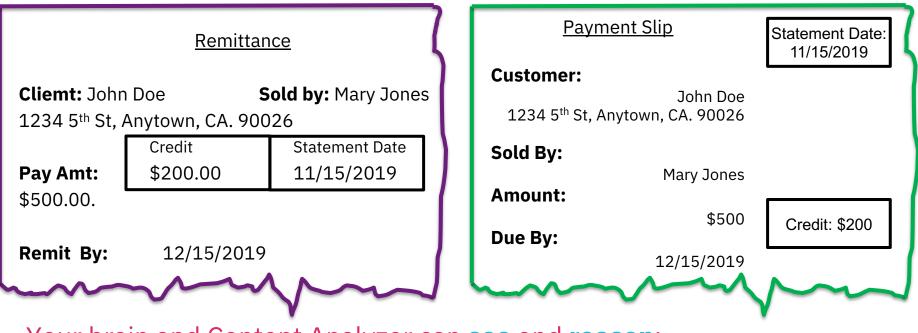
#### What does Content Analyzer do?

Understands key/value pairs in documents

The human brain does this intuitively -- you just see them!



#### Quiz: What is the Customer Name, Payment & Payment Due Date?



#### Your brain and Content Analyzer can see and reason:

- Customer Name is John Doe
- Payment is \$500.00

(Cliemt means Client -- just misspelled) (Customer means Client) (not \$200.00 to the right)

– Payment Due Date is 12/15/2019 ("Remit By" and "Due By" both mean "Payment Due Date")

### **FileNet Integration**

Classify, extract and act directly from FileNet

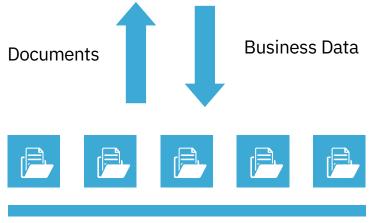
#### **Use Cases**

- Classify documents
- Populate document properties using extracted data
- Collect data for analytics
- Use data for workflow processes

#### **Feature Highlights**

- FileNet pushes content to Content Analyzer
- Content Analyzer returns classification and extracted data
- Process existing documents via FileNet repository sweep
- Processes new documents via FileNet check-in event action





#### **Content Repository**

### **Datacap Integration**

Expand Datacap's intelligent document processing

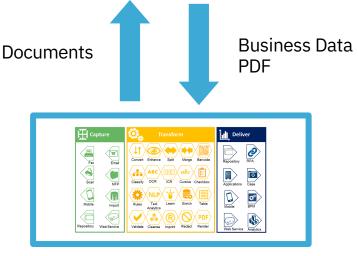
#### **Use Cases**

- Get data from highly variable docs without fingerprints
- Offload classification and extraction to the cloud
- Datacap provides verification UI & workflow of Content Analyzer results
- Datacap auto-redacts with role-based redactions

#### **Feature Highlights**

- Content Analyzer connector for IBM Datacap Insight Edition
- Datacap captures from scanners, fax, mobile, etc. Datacap sends documents to Content Analyzer for classification and data extraction
- Datacap workflow & UI for verifying results
- Datacap checks in document to repositories and sends data to other applications





	IBM <b>Business Automat</b>	ion Content Analyzer
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### **Integrating Content Analyzer and RPA**





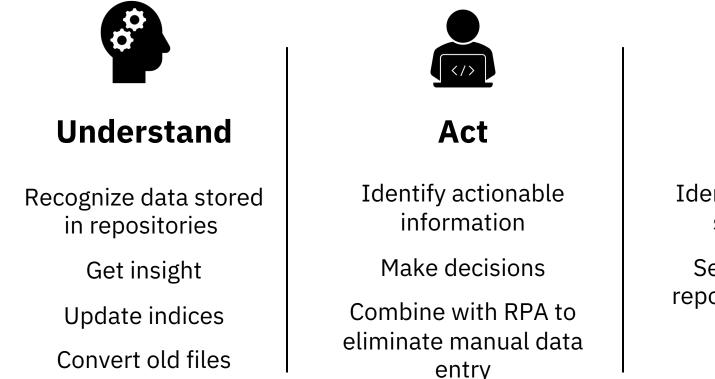
**Stu Leibowitz** | IBM Product Marketing Manager New York City | June 6, 2019



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#### Content Analyzer Use Case Patterns



Comply

Identify protected or sensitive data

Secure in content repositories or redact



### Software robots are similar to physical robots



#### **Physical robots**

Perform repetitive **physical** tasks

Example:

- Pick eight chocolates from assembly line
- Assemble a finished box of chocolates



#### **Software robots**

Perform repetitive **software** tasks

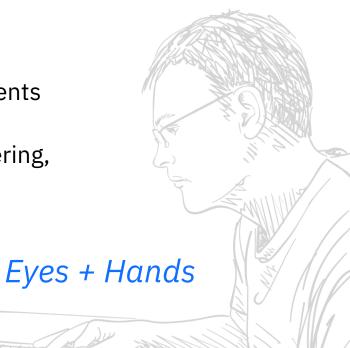
Example:

- Log in to four different systems
- Navigate legacy screens to retrieve data
- Use data to update insured info in claim system

#### Content Analyzer + RPA

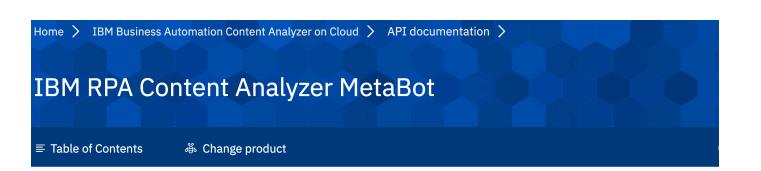
Automate the classification and extraction of data so software robots can automate the entire interaction

- Content Analyzer uses AI and Machine Learning to classify and extract data from unstructured documents and images
- Content Analyzer + RPA facilitates many data gathering, data entry and validation scenarios





#### IBM RPA Content Analyzer MetaBot



You can install the Content Analyzer MetaBot to IBM Robotic Process Automation (IBM RPA) with Automation Anywhere client to extract content from electronic or image documents and return structured data that can be used downstream in the IBM RPA logic.

The Content Analyzer MetaBot connects and authenticates in to a Content Analyzer instance via the APIs to upload files, do classification and extraction and return the key value pairs in a JSON stream.



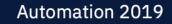
## Automation 2019 NYC



### Demo showcasing Content Analyzer, FileNet, Mobile and RPA



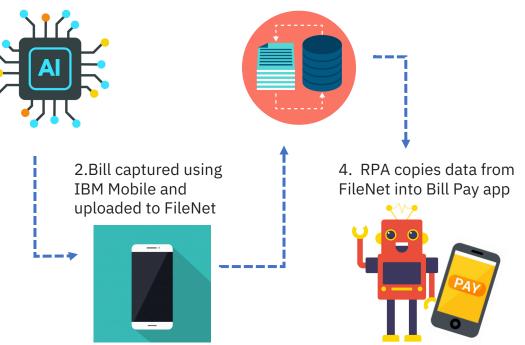






### **Bill Payment Demonstration**

1. AI training with IBM Business Automation Content Analyzer 3. FileNet calls Content Analyzer for classification and extraction of bill data



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