Transform Process Experiences with AI-Powered RPA and Document Understanding
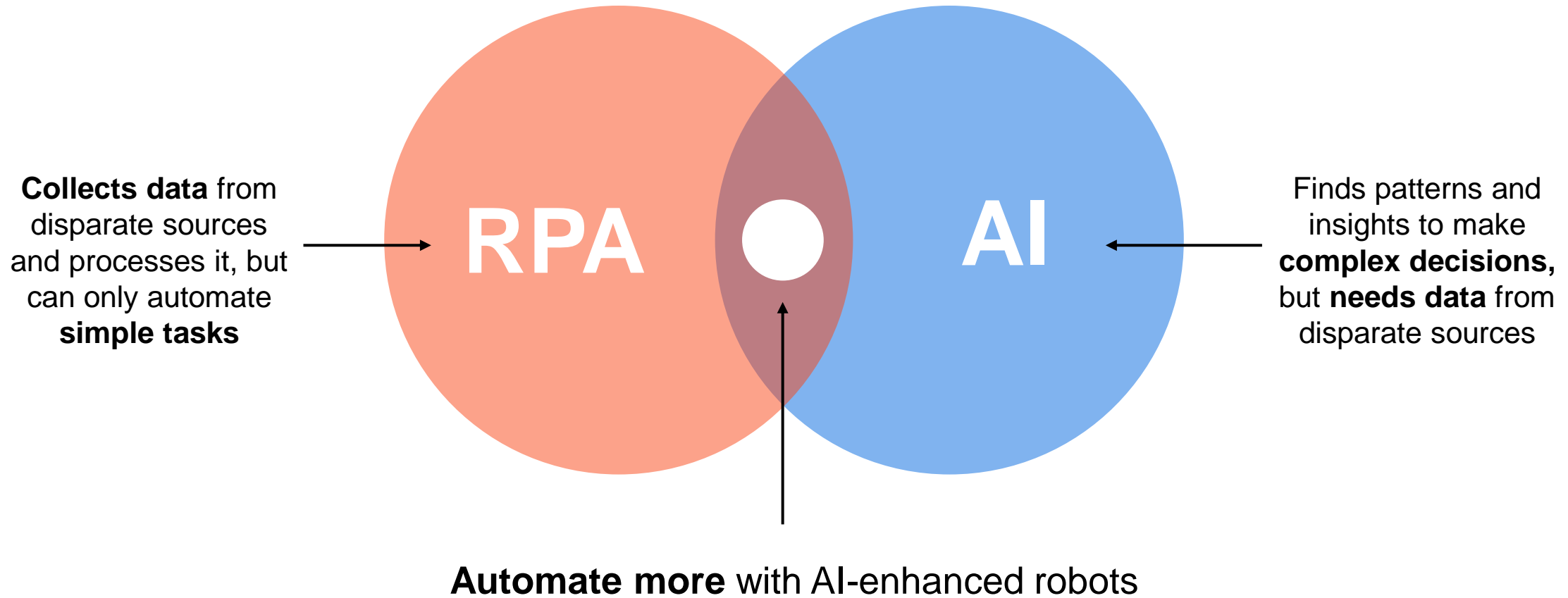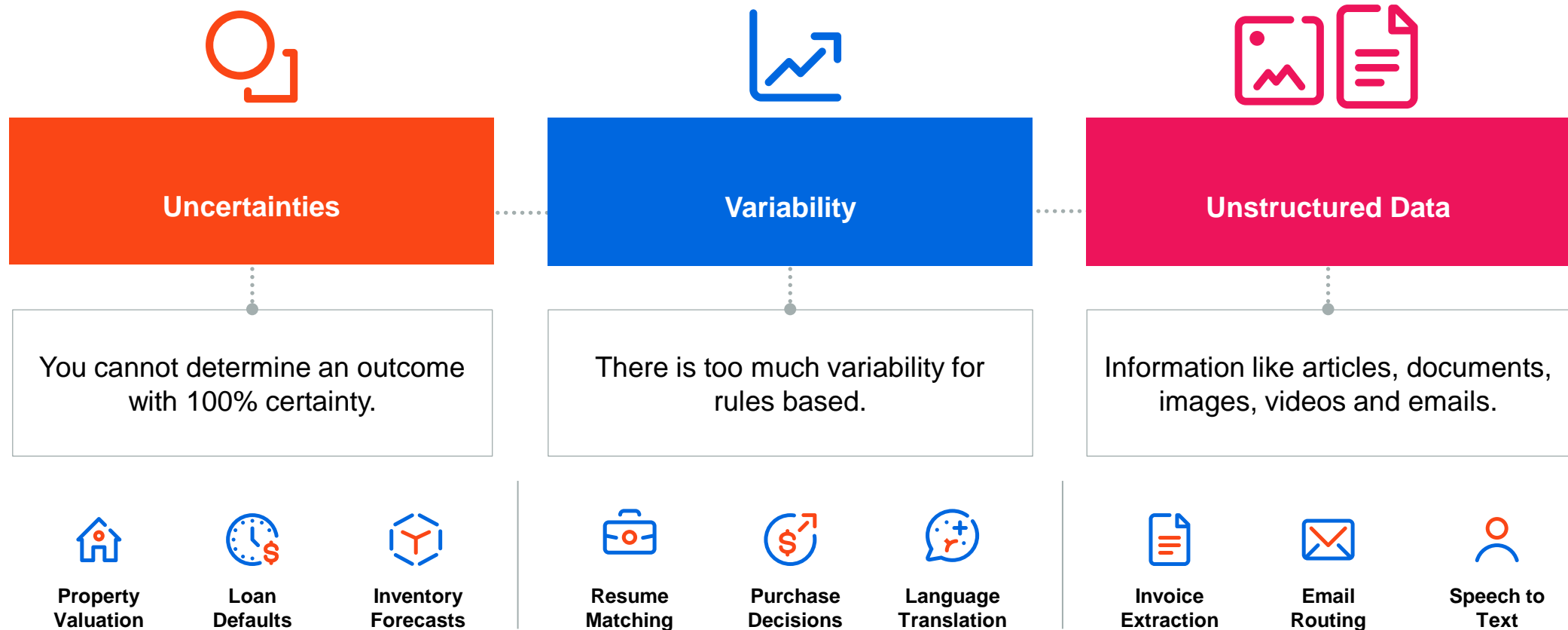
Robert Waldinger
Technical Partner Manager

Ui|Path™

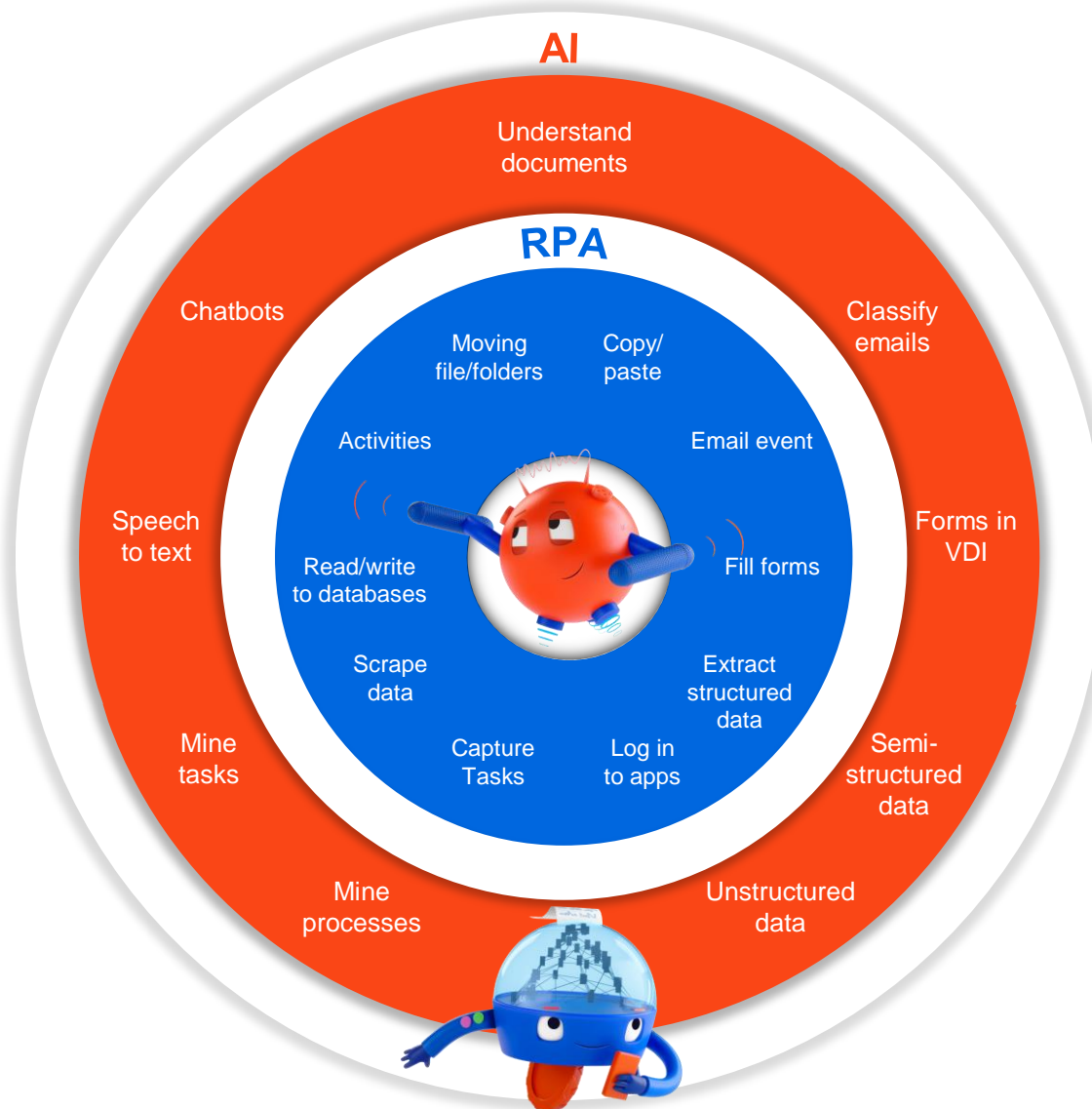# RPA + AI

Collects data from disparate sources and processes it, but can only automate **simple tasks**

RPA

AI

Finds patterns and insights to make **complex decisions,** but **needs data** from disparate sources

Automate more with AI-enhanced robots

RPA alone cannot automate advanced processes that involve…

Uncertainties	Variability	Unstructured Data
You cannot determine an outcome with 100% certainty.	There is too much variability for rules based.	Information like articles, documents, images, videos and emails.

Uncertainties
- Property Valuation
- Loan Defaults
- Inventory Forecasts

Variability
- Resume Matching
- Purchase Decisions
- Language Translation

Unstructured Data
- Invoice Extraction
- Email Routing
- Speech to Text

RPA needs AI for its **robots** to **learn new skills**.

Automate more with the combination of RPA and AI

- **Assist humans and focus on "thinking"**
- **Increasingly cognitive and complex tasks**
- **Pattern recognition**
- **Semi-structured and Unstructured data**
- **Probabilistic and high-variability**

Hyperautomation: a Gartner top strategic technology trend for 2020

Use multiple tools and technologies to accelerate your automation program, achieve massive scale, and realize ongoing business value.

AI skills
(NLP, AI Computer Vision, Intelligent Optical Recognition)
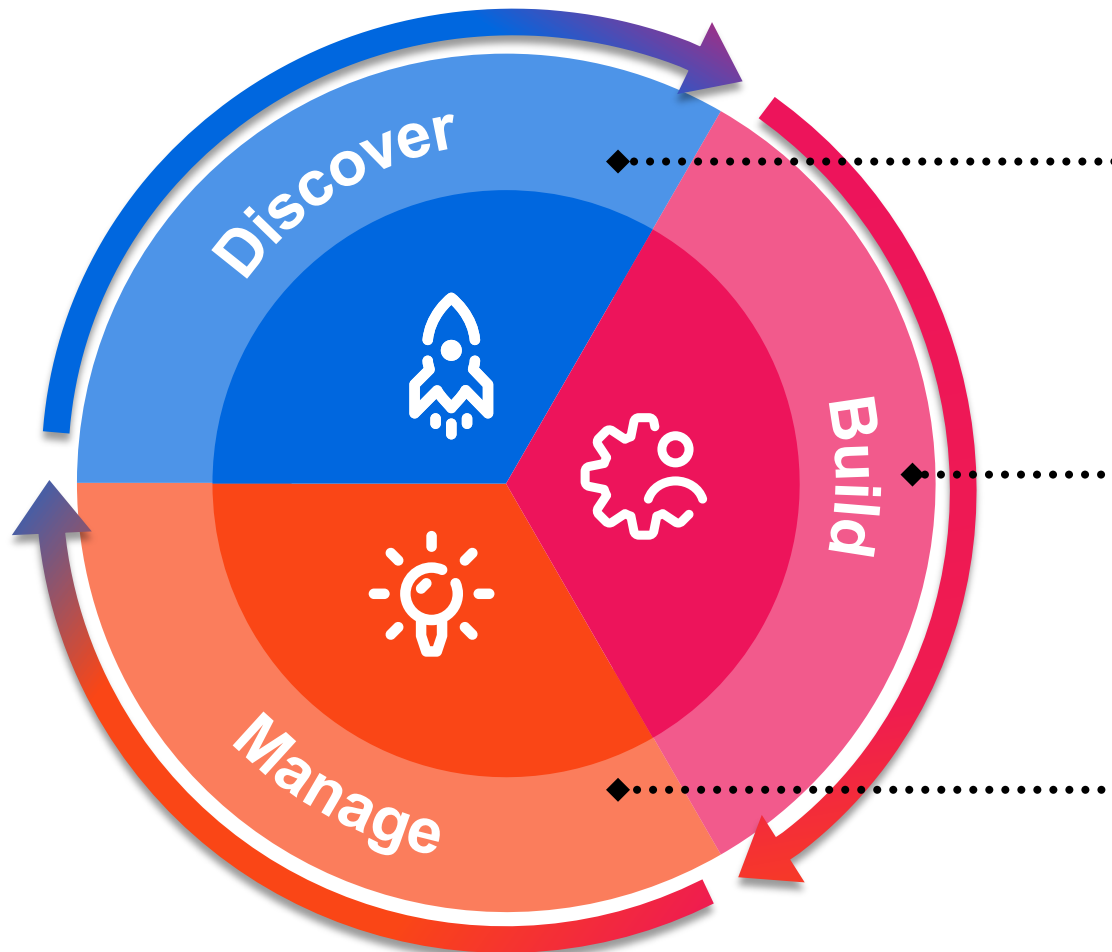
Machine learning

Long-running workflows

RPA

Process mining

Native integrations

Advanced analytics

Gartner

Top 10 Strategic Technology Trends for 2020

Practical AI enabled by UiPath hyperautomation platform

Scientifically identify automation opportunities

- Process Mining
- Task Mining *Preview*

Teach your robots new AI skills

- Document Understanding
- AI Computer Vision
- Conversational Understanding
- Custom skills
- Ecosystem Skills

Apply, scale, and manage AI

- AI Fabric
- Action Center

UiPath™ Platform

Expedite automation time-to-value and ongoing ROI
with hyperautomation across the entire lifecycle.

Discover	**Build**	**Manage**	**Run**	**Engage**	**Measure**
Discover automation opportunities powered by AI and your people	Build automations quickly, from the simple to the advanced	Manage, deploy, and optimize automation at enterprise scale	Run automations through robots that work with your applications and data	Engage people and robots as one team for seamless process collaboration	Measure operations and performance to align with business outcomes
Automation Hub Process Mining Task Capture Task Mining	StudioX Studio Studio Pro Document Understanding	Automation Cloud Orchestrator AI Fabric Test Manager	Attended Robots Unattended Robots AI Robots Test Robots	Assistant Action Center Chatbots	Insights

Process Analysts * RPA & Citizen Developers * IT Operations * Automation Users * Business Analysts *

UiPath
Reboot Work.™

* Example roles

UiPath Global Technology Alliance Ecosystem

alteryx · aws · Google Cloud · Microsoft · ORACLE · salesforce · SAP Silver Partner · servicenow · workday Access Partner

Document Understanding

ABBYY · Digital Reasoning · SortSpoke · accusoft · APPLICA.AI · omni:us · VIDADO · Stanford NLP · EPHESOFT · parashift · DocAcquire · Foxit · ROSSUM · Kodak alaris · CELATON · OCROLUS · ZANRAN · LUMINOSO · EXPERT SYSTEM · CaptureFast · SOLUMA · indico · FAST ACCOUNTING · CCi · (h[s]) HYPERSCIENCE · Nanonets · CSI Computing System Innovations · Vaultedge

Conversational Understanding

ARTIFICIAL SOLUTIONS · DRUID · Upwire · volume · HUMLEY · IBM Watson · ndis 変化の一歩先を。 · wiseVoice · uniphore · SYSTRAN · RoboSelf Be great at work · kore.ai · yellowmessenger · Re:infer

Process Understanding

MeeCap · minit · ACTIVEOPS

Specialized ML

DataRobot · H₂O.ai · DUCO · skymind · LARCAI · NNDATA · aito · data iku · Handl · SDL* · ZENON · ARRIA · Choice WORX.AI

Test Automation

SAUCELABS · AutonomIQ · Neotys · ARCAD SOFTWARE

Security

CYBERARK · thycotic · THALES · ROBOYO · Modex

Infrastructure & Architecture

SMS HIGHWAY · elastic · SOFIGATE · redis · shibumi · CITRIX Ready · GENESYS · Appulate · vmware · IBM · ATLASSIAN

Intelligent BPM

K2 · NEWGEN · Appian · Bonitasoft · AGILEPOINT · bizagi · Clear Software · Scheer · Plant an App · blueprint · FireStart · pipefy · CAMUNDA · aura portal · enate

Content Mngt & Collaboration

box · slack

Industries & Others

SANSORO HEALTH · Swiftqueue · SIMPLIGOV · unison · twilio

+ 200 more technology alliances partnerships across the ecosystem

Document Understanding
Teach robots to process documents using AI

Varying templates

INTELLIGENCE

Get documents
processed intelligently

FLEXIBILITY

Process a wide range
of documents

ACCURACY

Mix and match different
extraction techniques

EFFICIENCY

Save employee time with
end-to-end automations

How does Document Understanding work?

1

Load taxonomy

Define files and data for extraction

2

Digitize

Use OCR to detect text and its location

3

Classify

Classify the documents from the specified list

4

Extract

Extract information from the documents

5

Validate

If needed, a human can confirm the extracted data

6

Export

Export the extracted info for further usage