# The Real World of AI: Business Processes Reimagined

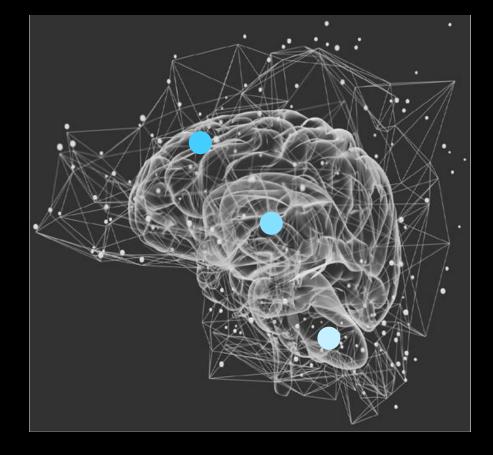
Dr. Chitra Dorai IBM Fellow, Vice President and CTO IBM Global Business Services

April 19 2018

**IBM Services** 



## **Augmenting Intelligence**





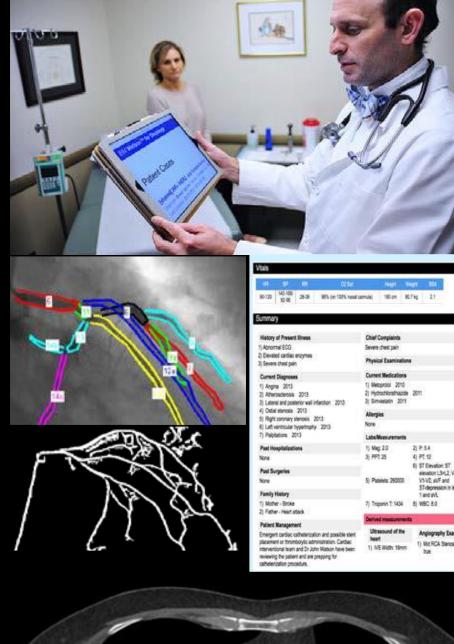
### **Cognitive Computing**

Interactive decision-making and reasoning over deep domain models and evidence-based explanations, using Artificial Intelligence/Machine Learning tools

**Artificial Intelligence** Range of techniques including natural language processing, computer vision, knowledge representation, reasoning and planning, for advanced tasks

### **Machine Learning**

Statistical analysis for pattern recognition to make data-driven predictions and discovery





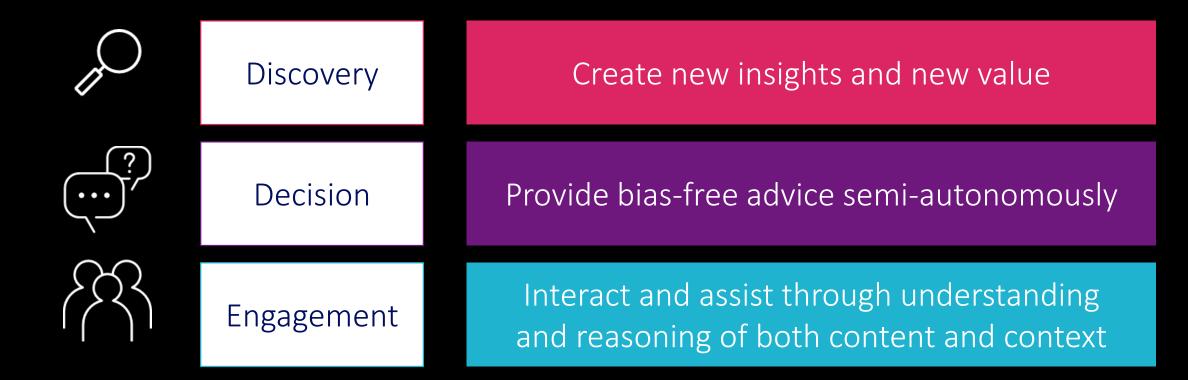


Professionals everywhere are reimagining the ways they work ...

Al is making the ordinary extraordinary



## AI at the Core of Business Process Reimagination



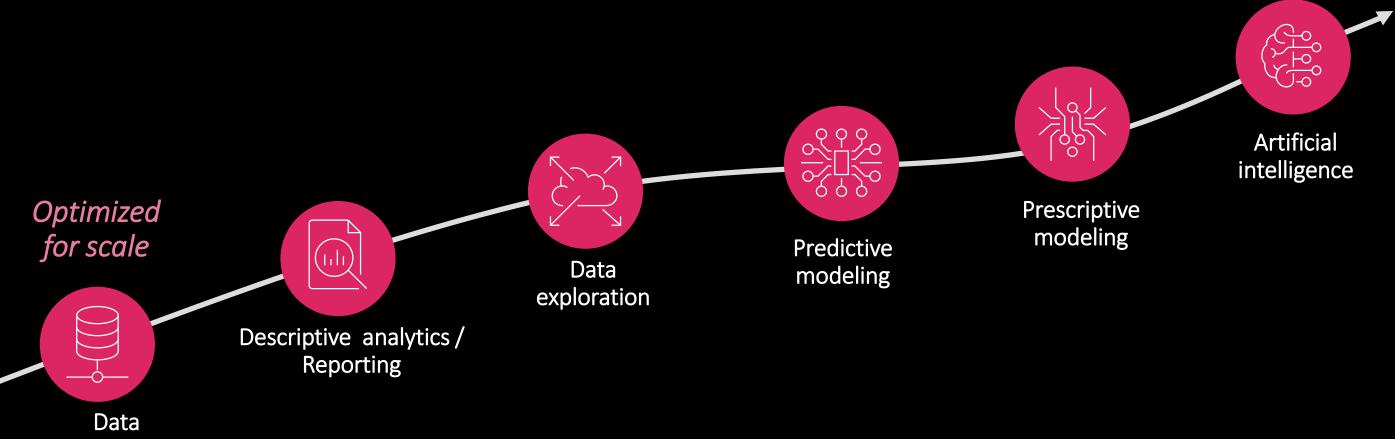


# Deploy disruptive business models

Digitize and streamline processes

Re-invent client engagement

## See the Unseen: **Data First Approach to Process Reinvention**

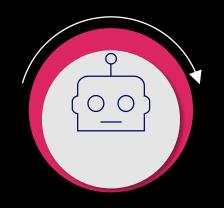


foundations

Digital exhaust analyzed for expedited identification of *Patterns* and Economic Value in business process redesign

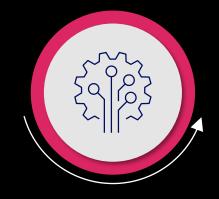
### Optimized for innovation

## **Radically Improve: Intelligent Automation to Reimagine Work**



**Basic automation** 





Robotic process automation (RPA)

Redefined process and org structures



Intelligent process automation (IPA)

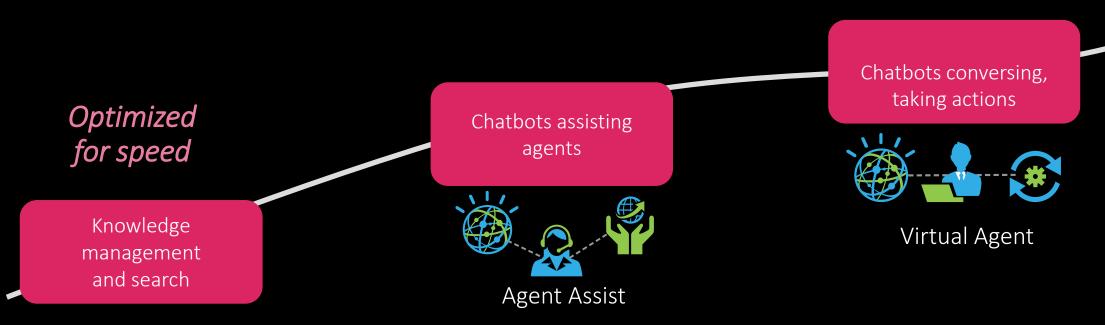
**Dynamically** adaptive services







## **Customer Care Reimagined**



Knowledge Base Foundations

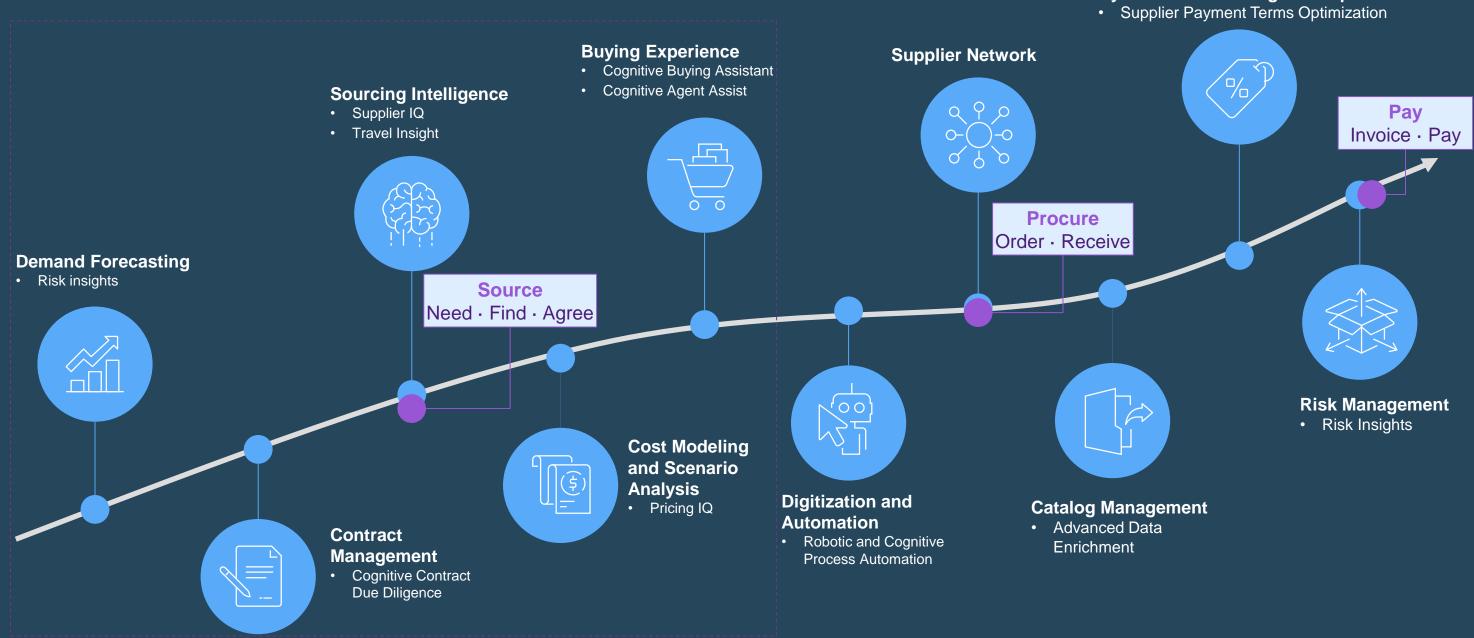
Deployed across Horizontal processes and Vertical industry processes

### Optimized for experience

Human-level open dialog systems

### The Companion

## **Procurement Reimagined**

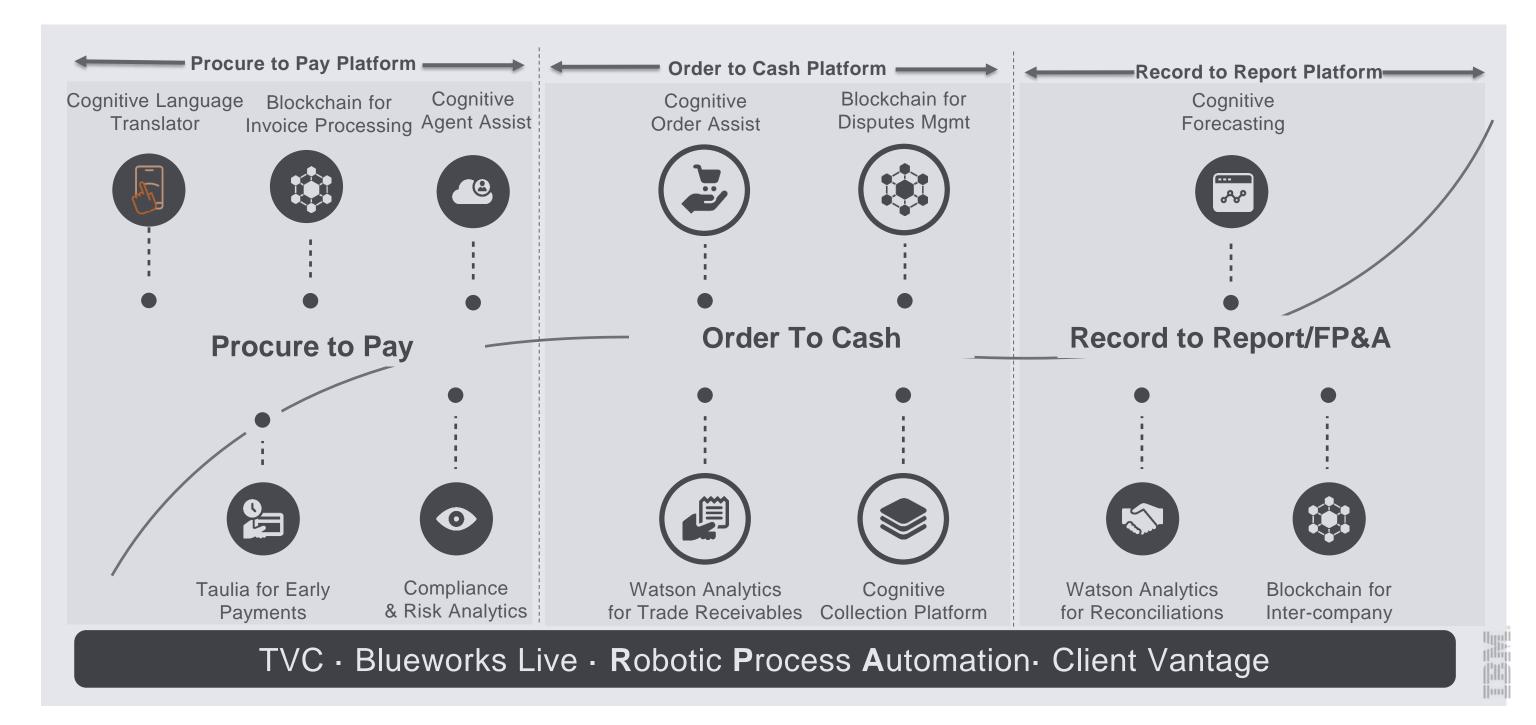


**15%** reduction in indirect spend

99% spend compliance achieved

### **Dynamic Discounting Marketplace**

## **Finance Reimagined**



## Map of Finance Business Process Related Cognitive Solutions

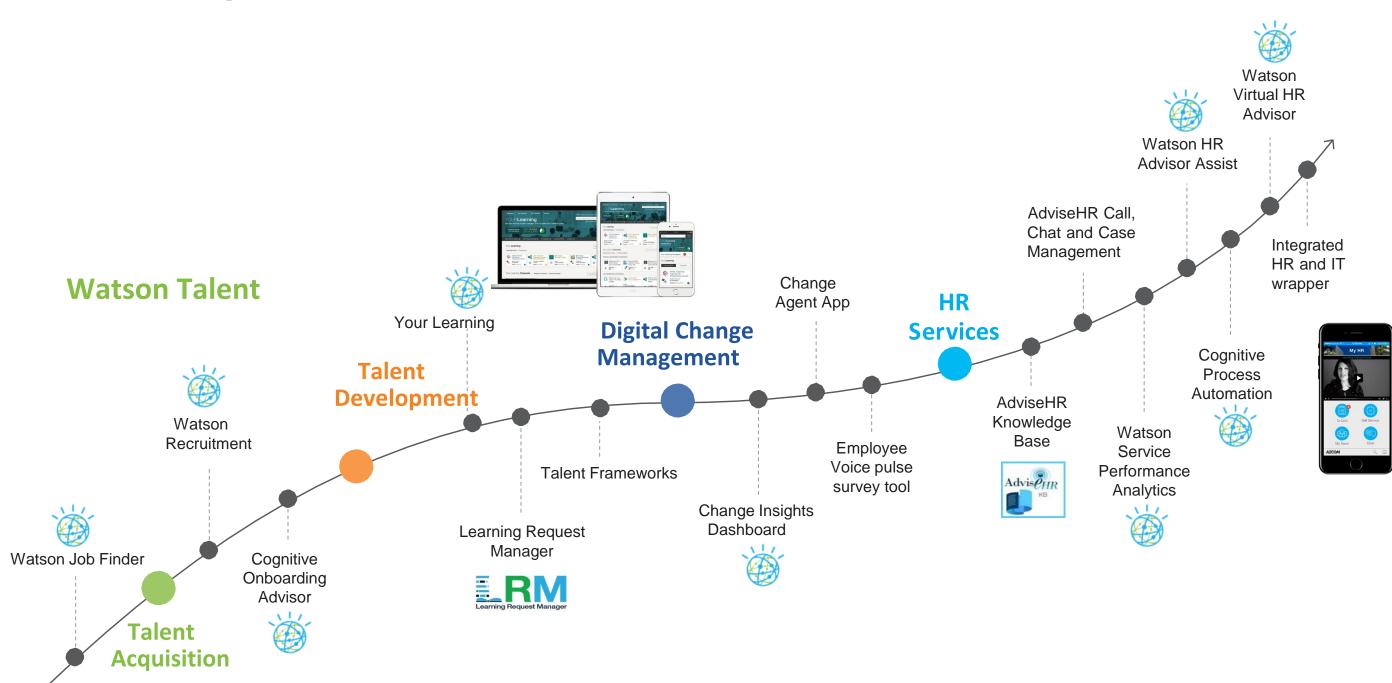
		New Focus Create new insights and new value					New Expertise Provide bias-free advice semi-autonomously					New Ways to Work Interact and assist through understanding and reasoning of both content and context					
		Conce pt	Design/ Demo	Build – Prototyp e to MVP	Pilo t	Prod/ Deploy	Conce pt	Desig n/ Demo	Build - Prototyp e to MVP	Pilot	Prod/ Deplo y	Concep t	Design / Demo	Build - Prototype to MVP	Pilot	Prod/ Deploy	
Finance	Procure to Pay/Accounts Payable										•	•					2
	Order to Cash						•••		•	•			•••				10
	Record to Report									•					••		3
	Transition Management			•											•		2
			·	<ul> <li>Transition Managem ent Advisor (Cobee)</li> </ul>	<u>.</u>		<ul> <li>Cognitiv Cash Applica n</li> <li>Cognitiv Order Process</li> <li>Cognitiv Query Classifie</li> <li>Cognitiv Root</li> </ul> <li>Cognitiv Root</li>	tio ve sor ve er ve s	<ul> <li>Cognitive * Collection Platform</li> <li>•</li> </ul>	Analytics based] Accounts Receivable Interactive	Translat for invo process	ion GRN ice	Perfe	ct Index tive for ctions tive for nt geme tive	<ul> <li>Agent Assist Trade Finance</li> <li>Email Transl</li> <li>IRA</li> </ul>	for e	

The organizations of the future are talent-centric and AI-powered



### **Reimagine talent development**

## **HR Reimagined**



## Watson Talent

- A single platform for the future of HR
- 10-year head start on the Cognitive ٠ Journey - Global, Scalable & Secure
- You retain ownership of your data and  $\bullet$ competitive insights. IBM does not share insights derived from your data

### **Comes to you knowing HR**

- Activated with 3000+ job profiles, 2000+ competencies; 40,000+ skills, 3.2M career paths, across 20 industries / libraries
- Trained by I/O Psychologists

## Transforms talent, delivers **ROI** and drives competitive advantage

- 14% increase in quality of candidates provided to hiring manager
- 20% increase in average monthly hires by  $\bullet$ recruiter

### Learns from your data and history to define your unique success profile

Aggregates structured and unstructured data from work and nonwork sources

Detects and prevents bias

Create your digital workforce through intelligent automation

## 01

Enable an Enterprise Approach 02

Automation at Scale

# 03 Consider Your Platform

# Thank you

