



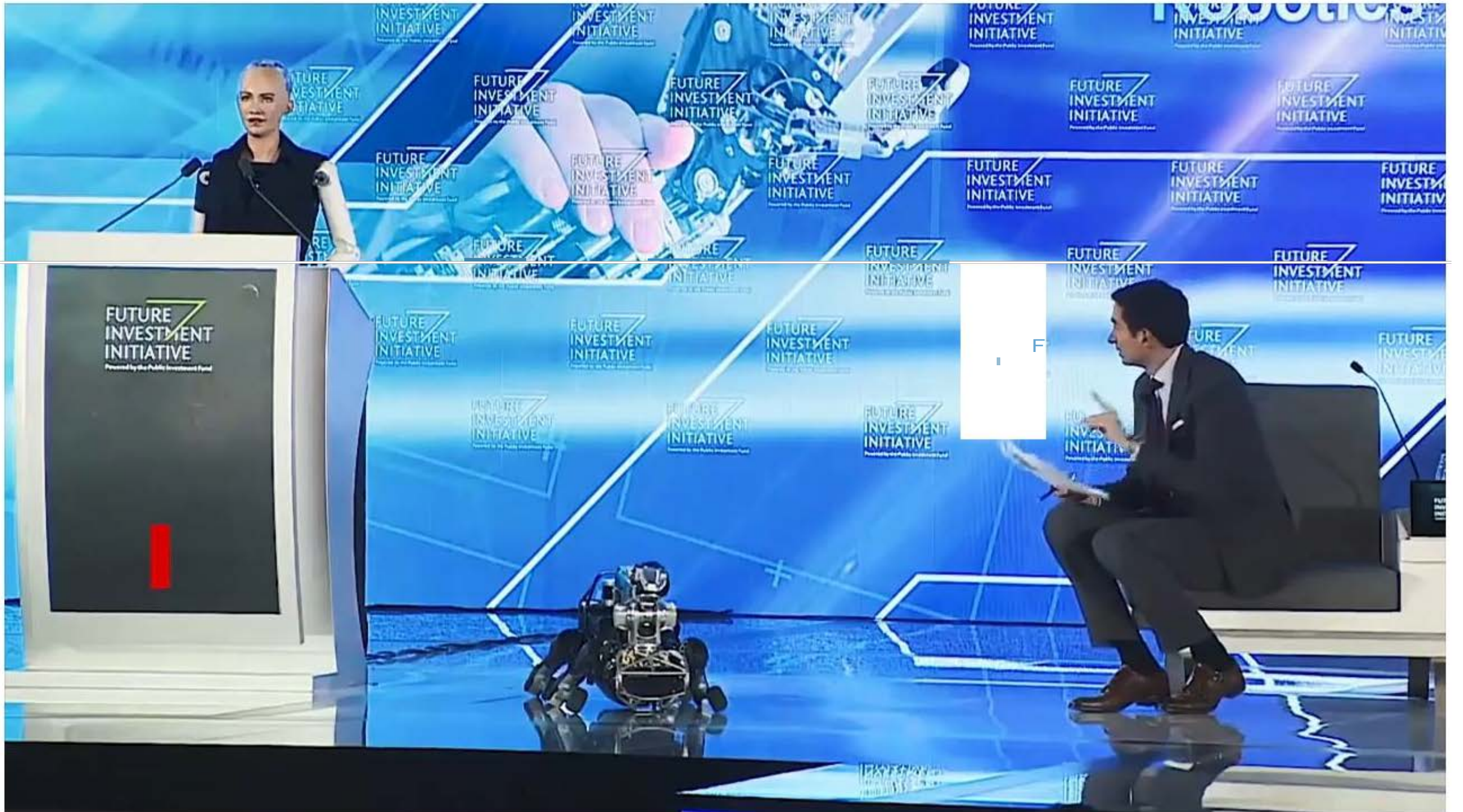
UNDERSTANDING DIGITAL AND KEEPING UP WITH INDUSTRY 4.0

CA SAURABH GOENKA






The World is Changing. Intelligence is Leading that change.



Video Credits :Jakarta Post



Did you ever anticipate that a robot could one day be granted the citizenship of an advanced economy?

Question



Why am I here today?

Question

1 Understanding Industry 4.0 and the Digital Transformation wave

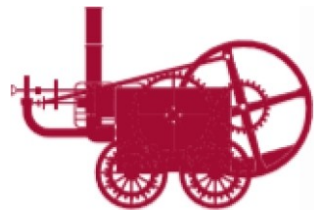
2 A sneak peek into the key Digital Technologies enabling Digital Transformation

3 What does Industry 4.0 mean for the CA Profession – What is Profession 2.0

4 What do you do to embrace Profession 2.0

5 Questions and Answers

Understanding Industry 4.0 and the Digital Transformation wave



Industry 1.0

Introduction of mechanical production facilities

- Spinning wheel
- Water wheel
- Steam engine

1750

1800

1850

1900

1950

2000

2050



Understanding Industry 4.0 and the Digital Transformation wave

Industry 2.0



Manufacturing with the help of electricity (mass production)

- Electricity
- Conveyor belts
- Assembly lines

Industry 1.0

introduction of mechanical production facilities

- Spinning wheel
- Water wheel
- Steam engine

1750 1800 1850 1900 1950 2000 2050

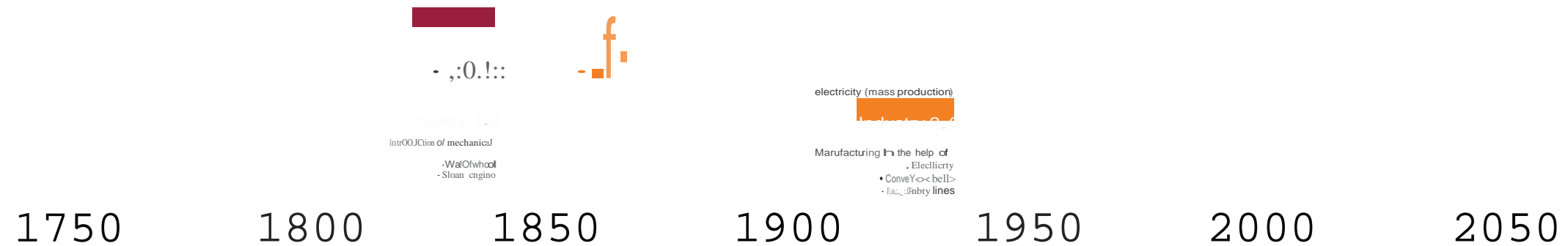


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Industry 3.0

Manufacturing with IT to automate production

- Electronics
- IT



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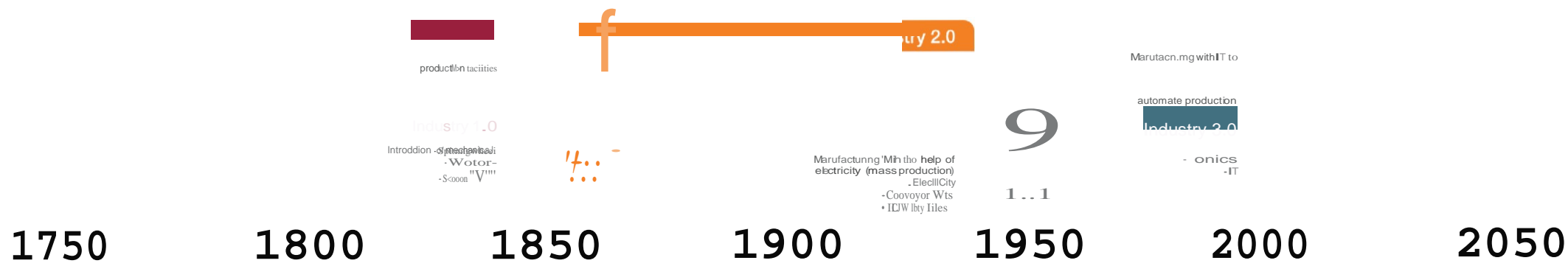
Understanding Industry 4.0 and the Digital Transformation wave



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Understanding Industry 4.0 and the Digital Transformation wave



Industry 4.0



Integration of **digital and physical systems**

- Internet of Things
- Big data analytics
- Robotics and 3D printing

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Industry 4.0

- Integration of **digital** and **physical** systems
- Internet of Things
 - Big data analytics
 - Robotics and 3D printing

Understanding Industry 4.0 and the Digital Transformation wave



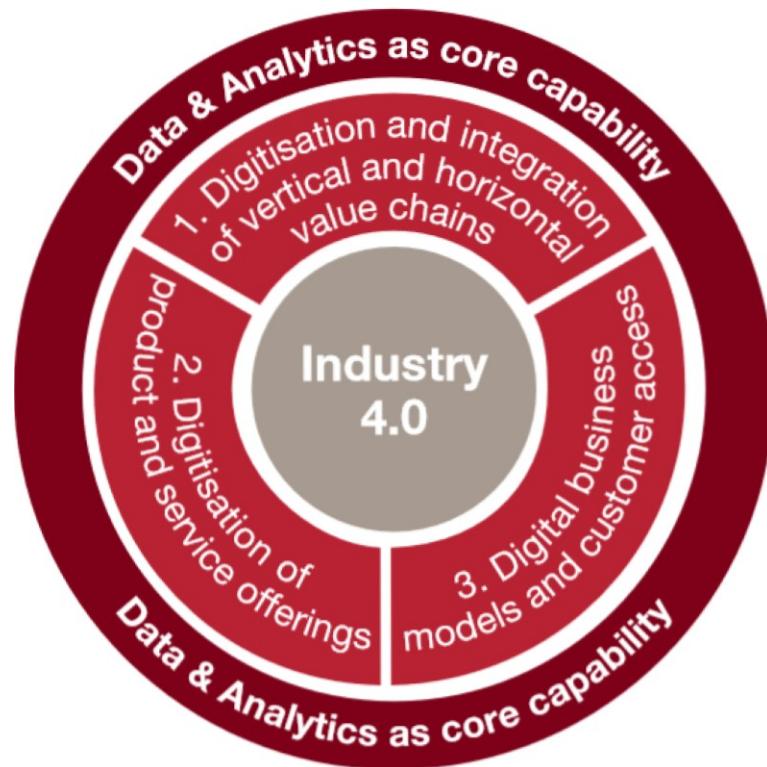
Industry 4.0



Integration of **digital** and **physical** systems

- Internet of Things
- Big data analytics
- Robotics and 3D printing

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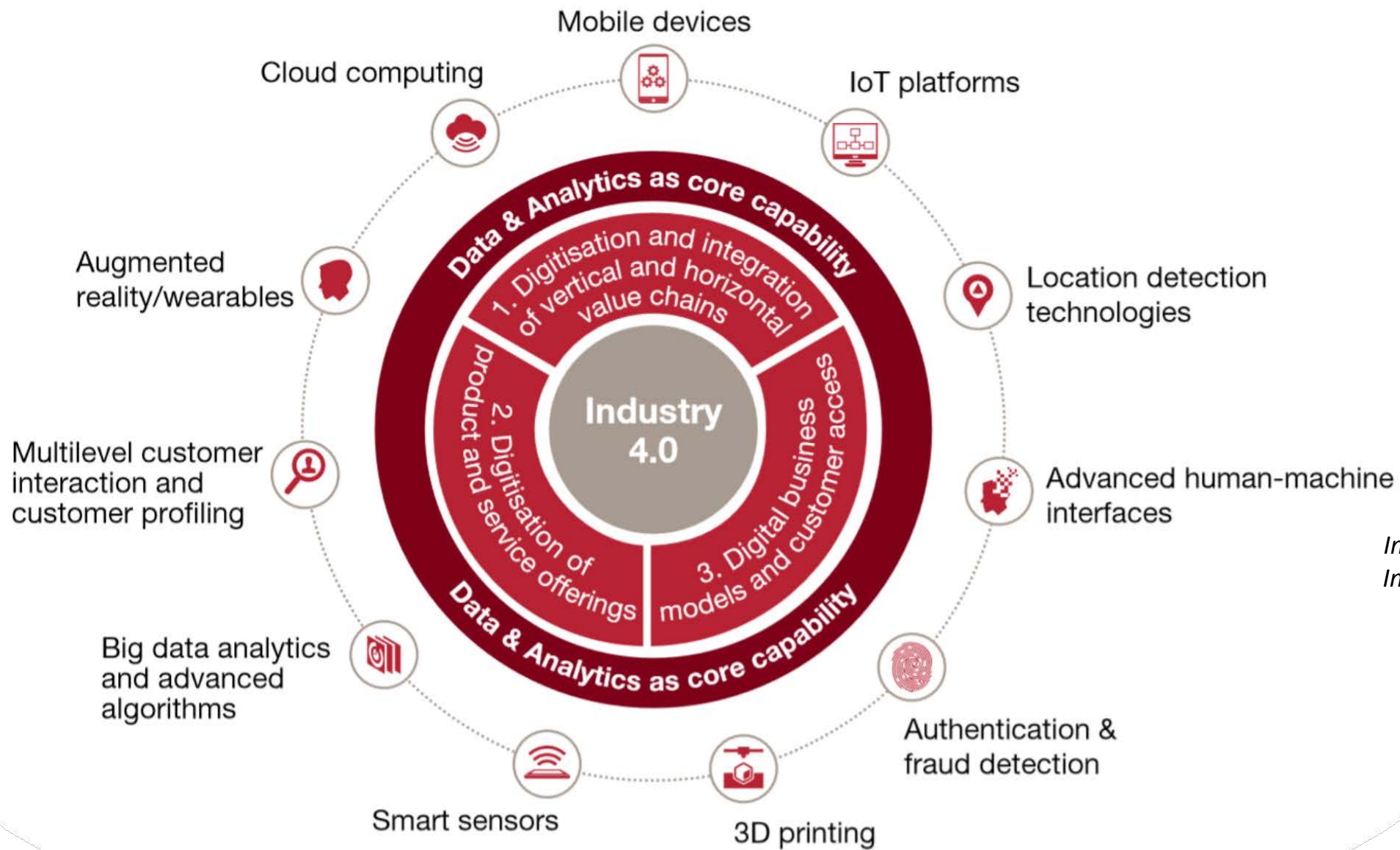


Industry 4.0



Integration of **digital** and **physical** systems

- Internet of Things
- Big data analytics
- Robotics and 3D printing



Industry 1.0 – 4.0 journey credits : CGI
 Industry 4.0 Framework credits : PwC

Industry 4.0

- Integration of digital and physical systems
- Internet of Things
 - Big data analytics
 - Robotics and 3D printing





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5 Questions and Answers

A sneak peek into the key Digital Technologies enabling Digital Transformation

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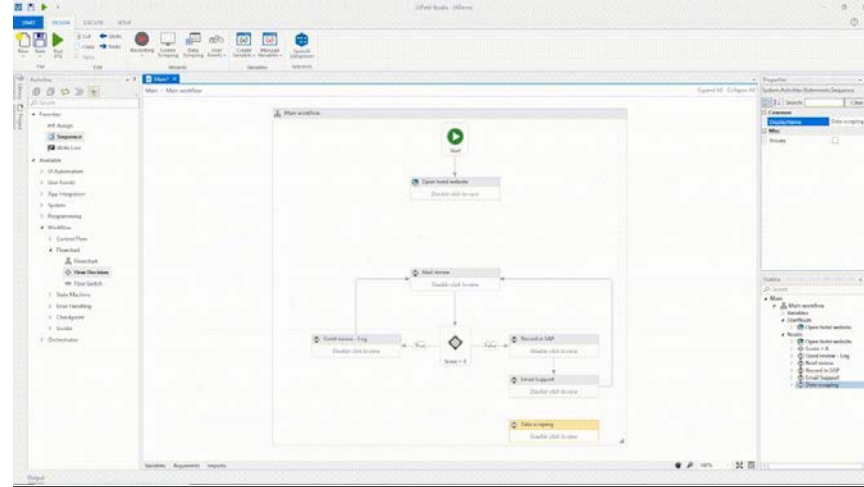
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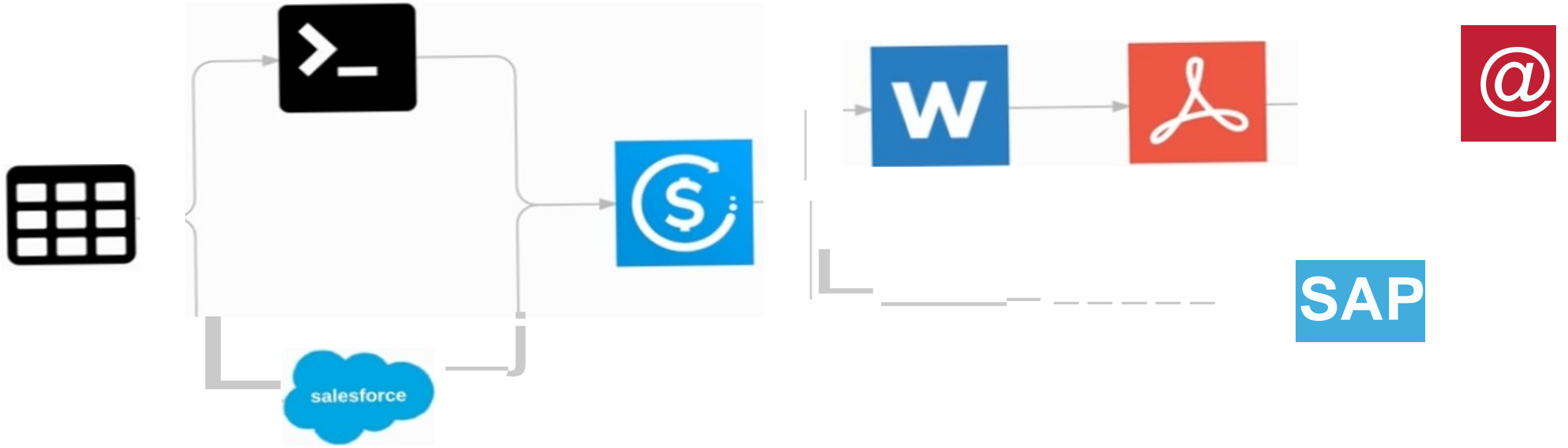
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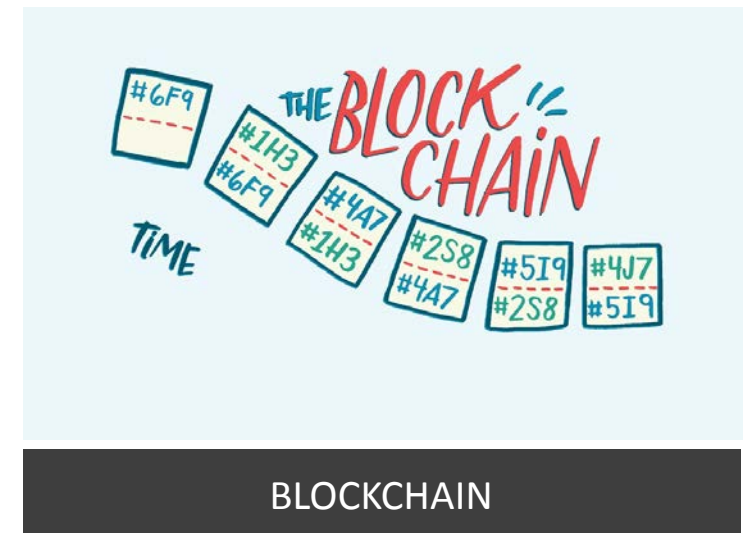
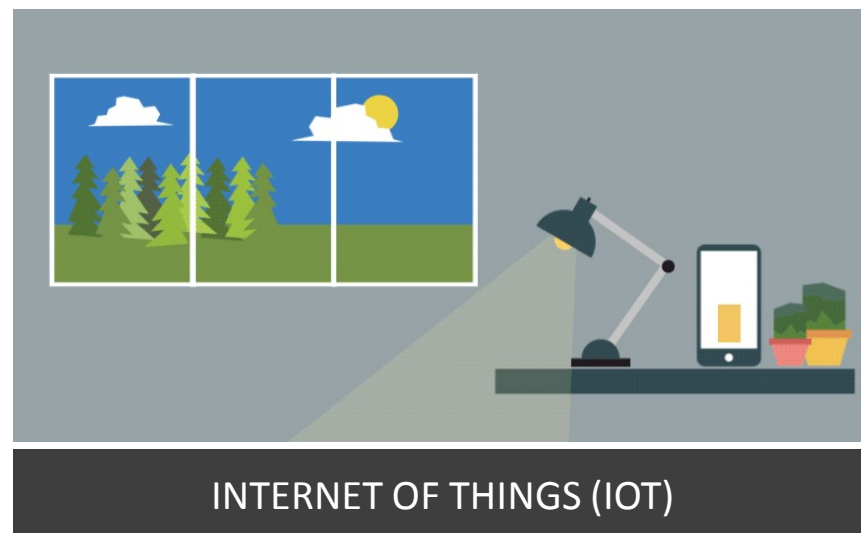
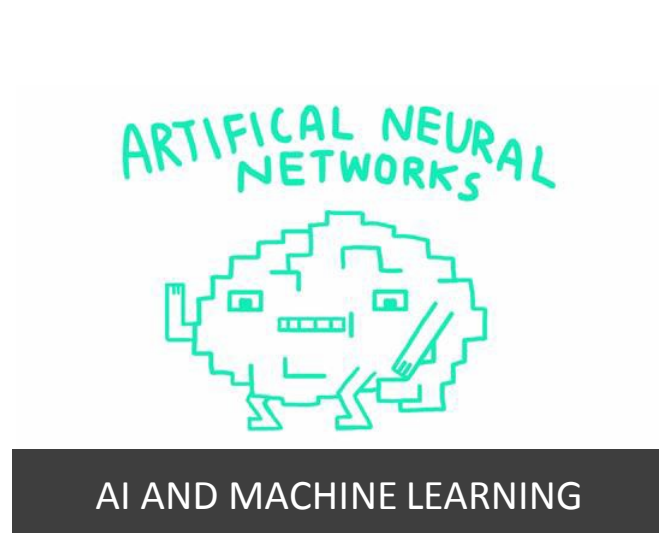
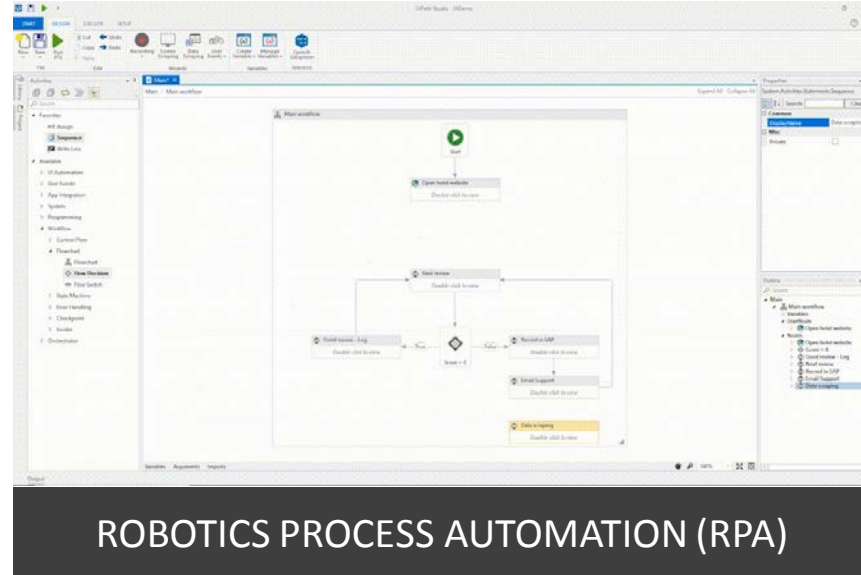
ADVANCED ANALYTICS



ROBOTICS PROCESS AUTOMATION (RPA)



A sneak peek into the key Digital Technologies enabling Digital Transformation



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What does Industry 4.0 mean for the CA Profession- What is Profession 2.0

	Exponential Technologies	Visualization	In-Memory Computing	Blockchain	Robotics Process Automation	Internet of Things	Cognitive Computing	Advanced Analytics	Mobility
Finance areas									
Fixed Assets						X		X	
FP&A	X		X	X	X		X	X	X
Order-to-cash				X	X			X	X
Procure-to-pay				X	X	X		X	
Record-to-report					X			X	
Tax					X			X	
Treasury				X	X				
Investor Relations	X			X			X	X	X

x Areas of Finance Disruption

What does Industry 4.0 mean for the CA Profession – What is Profession 2.0

L0	S2P - Source to Pay				R2R - Record to Report								O2C - Opportunity to Cash			
L1	Source to Request	Request to Order	Order to Reception	Invoice to Payment	Fixed Assets	Inventory	Payroll Accounting	Bank Accounting	Inter Company	General Accounting	Financial Analysis, Reporting & Compliance	Financial Planning	Opportunity to Bid	Award to Contract	Deliver to Invoice	Invoice to Cash
	Vendor Sourcing	Need Qualification	Goods & Services Reception	Invoice Processing	Manual Capitalization	Manual Capitalization	Payroll Review	3rd Party Payments - Wire Transfers	AR Billing	Master Data Management (incl. Chart of Account)	Post Close Reporting	Revenue Budget Preparation	Opportunity Identification	Pricing Review	Sales Order Processing	Invoicing - Products
	Vendor Master Data Management	Purchase Request Creation	System Capitalization (link to Fixed Asset & Inventory Processes)	3 Way Match	Internal Manufacturing	Internal Manufacturing	Payroll Validation/Correction/Recharges	3rd Party Payments - Direct Debit	AP Booking	Subledger Close (AP, AR...)	Post Close Financial Analysis	Revenue Budget Review	Opportunity Confirmation	T&C Review	Initiate Job Order	Invoicing - Services
	Catalogue Management	PO Creation	Open PO & Received Not Invoiced	Non PO Invoice Validation	Maintenance	Transfer	Payroll Related Accruals	3rd Party Payments - Check	Settlement of AP	System Generated Allocations	Balance Sheet Notes	P&L Budget Preparation	Customer Review & Credit Assessment	Revenue Recognition Update	Manage Job Order	Credit Notes
	Vendor Performance Review	PO Approval		Expenses Reports Processing	Transfer	Usage		3rd Party Payments - Cash	Cash Applications	Revenue Review (Feeds Revenue Accruals)	Internal Control Checklists	P&L Budget Review	Tender Evaluation (RFP)	Contract Preparation - Standard	Organize Delivery	Cash Application - Standard (All Information Available)
				P-Card Processing	Disposal	Disposal		Bank Account Administration	AR Confirmation & Reporting	Journal Vouchers - Revenue or AP Accruals	Consolidation Package Preparation & Upload	P&L Budget Submission	Tender Evaluation (RFQ)	Contract Preparation - Ad Hoc	Manage Delivery	Cash Application - Cash & Missing Information
				Authorize Cash Disbursement	Physical Counts	Inventory Depreciations		Bank Reconciliation Preparation	AP Reconciliation, Confirmation & Reporting	Journal Vouchers - Provisions	Consolidation Package Corrections	Revenue Re-forecast	Technical Response Determination	Contract Signature	Obtain Delivery Note Sign Off	Strategic Dunning & Follow Up
					Depreciations & Amortization	Miscellaneous & Supplies Review		Bank Reconciliation Clearance	Advances, Recs & Confirmation	Journal Vouchers - Tax Provision	GAAP Adjustments, Eliminations & Other Top Entries	P&L Re-forecast	Business Case Modeling (Pricing / Profitability / Cash Flows)	Pricelist Management	Revenue Accrual - GR Based	No Strategic Dunning & Follow-Up
					Impairment Tests and Provisioning	Physical Counts		Bank Guarantee Issuance		Journal Vouchers - Manual Allocations			Revenue Recognition Determination	Contract Mid Term Review	Revenue Accrual - Information Based	Bad Debt Provision & Write Offs
					Performance Review (Utilization, Output, etc.)	Reconciliation & Adjustment		Tracking of Bank Guarantees		Journal Vouchers - Recharges & Recharges			Technical & Commercial Response Validation		Other Accruals (Commissions, Volume Discounts)	
					Fixed Assets Reporting	Inventory Analysis & Reporting (incl. WIP Tracking)		Reconciliations / Verification of Bank Guarantees		Journal Vouchers - Others			Response to Tender			
					Investment Request Validation			Verification of BG Charges		P&L Preparation			Customer Master Data Management			
					FA Master Data Management			Facility Management		P&L Review						
								Petty Cash Administration								
								Portfolio Mgt - Short Term Financial Assets Reporting								
								Portfolio Mgt - Long Term Financial Assets Reporting								
										Month End Close Monitoring						

RPA Potential



Attended robots

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NONE



What changes do you see in Profession 2.0 vs Profession 1.0?

Question

	PROFESSION 1.0	PROFESSION 2.0
CA FIRMS AND CAs IN PRACTICE	<ul style="list-style-type: none"> • Tax Filing Services • Traditional Audit and Assurance • MIS and reporting • Traditional transaction advisory • Engagement on demand • Local presence 	<ul style="list-style-type: none"> • Tax Filing Automation • AI and Analytics enabled audit • Advanced Analytics and visualization • Decision impact forecasting • Analytics driven demand generation • Digital presence
CORPORATE FINANCE	<ul style="list-style-type: none"> • Finance as a support function • Responds to business needs • Manual push based reporting • Manual controllership function • Traditional internal audit • Descriptive reporting 	<ul style="list-style-type: none"> • Finance integrated with business • Forecasts business outcomes • Cloud based automated reporting • RPA driven controllership • AI and RPA driven internal audit • Predictive Analytics

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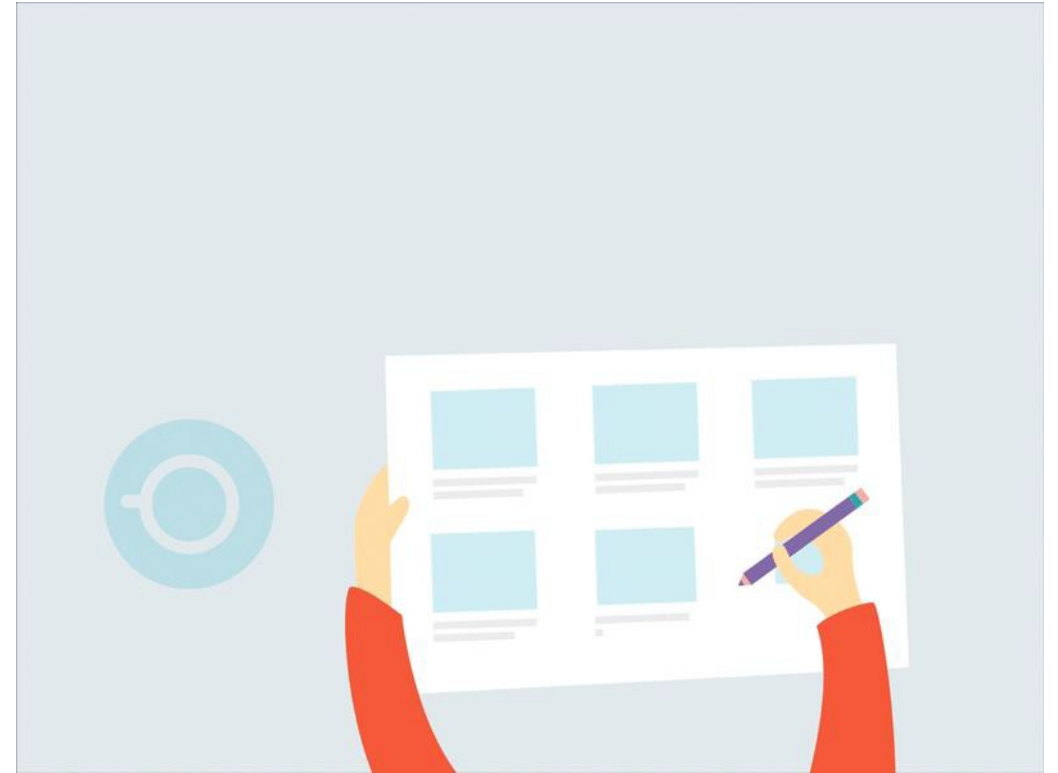
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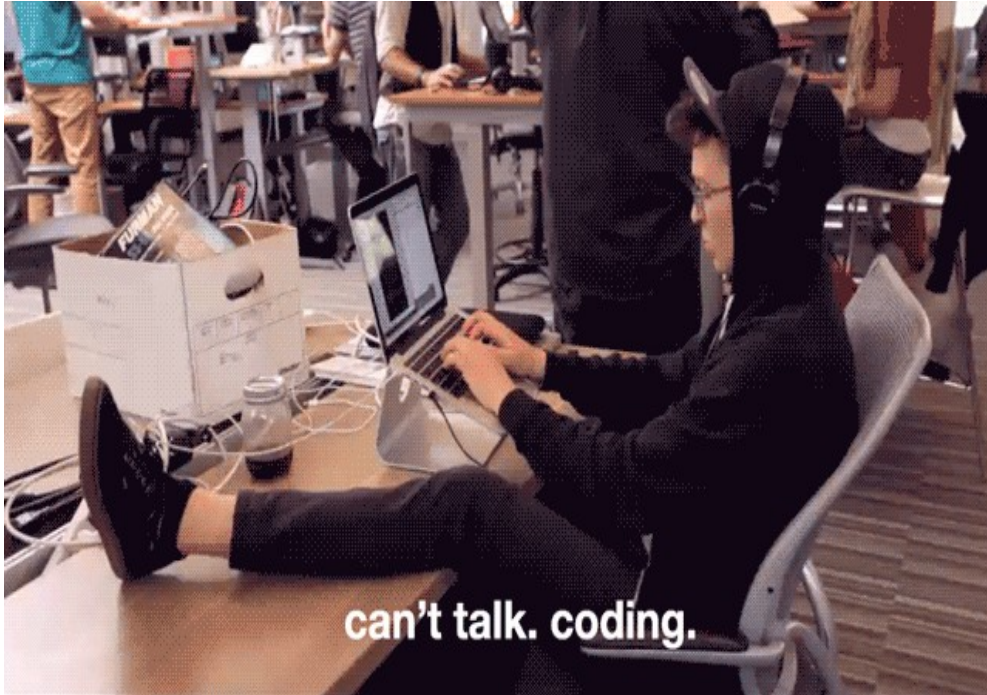
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TRAIN YOURSELF AND BUILD CAPABILITY



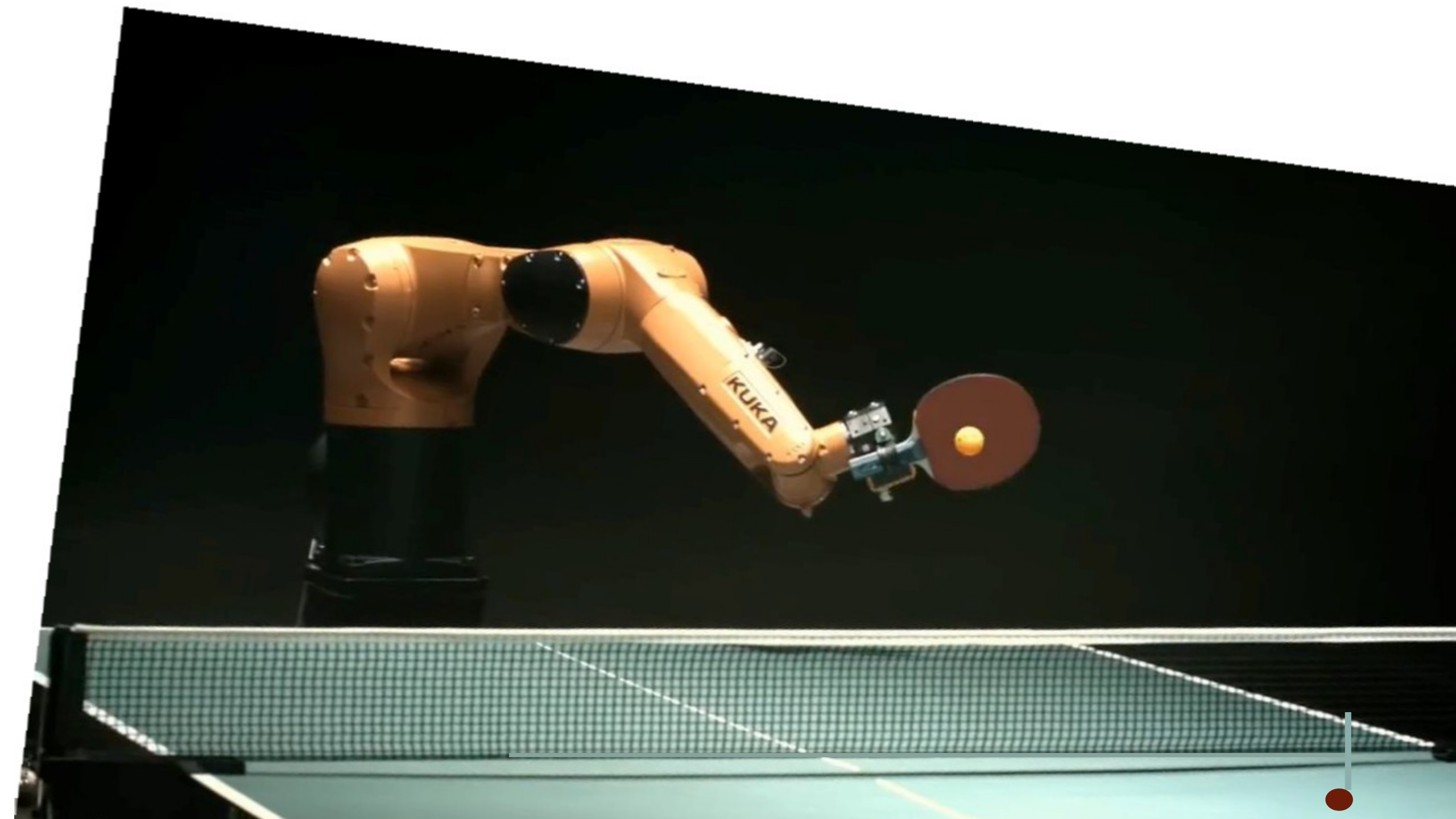
STRATEGIZE YOUR FIRST DIGITAL PROJECT



EMBRACE TECHNOLOGY



CASH IN ON INDUSTRY 4.0





CA SAURABH GOENKA