

Innovating Ahead of Your Competition with JD Edwards Labs

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WORLD

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Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.



JDE Labs Product Incubation Engine



JD Edwards Product Incubation Engine



- Incubation Lifecycle:

- Research a technology, market space or a potential gap in the product
- Develop hypothesis and/or working prototype
- Validate with the market place – working with partners & customers
- Recommend a release model – either seed the citizen developer community or add to the product roadmap backlog

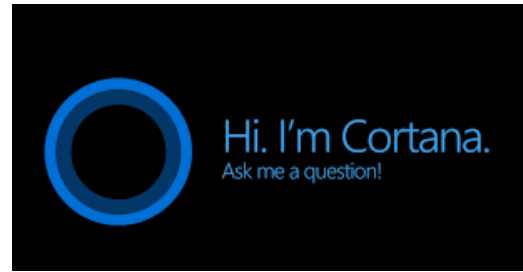
- Not all ideas graduate!! At least not on the first iteration.



Virtual Assistant



Virtual Assistant



- Consumer space solutions
 - Mostly speech to text conversions, some natural language interaction
 - Improving contextual awareness
- Enterprise Scenarios
 - Natural language interaction with the system (Update order, enter inventory details, approve expense report, show me my next work order with directions)
 - Automated Intelligent notifications (time based, geo based, rule & role based)
 - Integrated enterprise persona

Virtual Assistant - Enterprise Scenarios



- Natural language interaction with the system



Voice based prototype last year



Partner developed solutions



NLP interface via text on web and mobile clients

- Automated **Intelligent** notifications



Notifications Framework (Already in the product!!)



Needs to become “intelligent”

- Integrated enterprise persona



Concept of “Digital Twin”



Virtual Assistant: Natural Language Interaction via Web and Mobile interfaces

- Solution = Chatbots
- What do we get:
 - Natural Language Processing frameworks
 - Contextual conversations
 - Pre-trained with lexical rules
 - Quick learning
 - Self evolving (with machine learning)

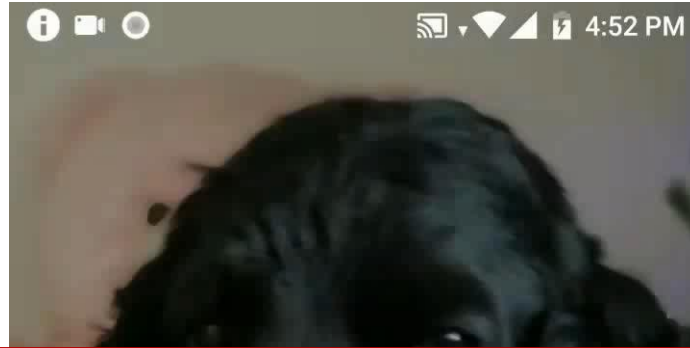


Virtual Assistant: Natural Language Interaction via Web and Mobile interfaces

- Same use cases still apply: Update order, enter inventory details, approve expense report, show me my next work order with directions
- Some others as well:
 - Repetitive tasks: Mundane, data processing heavy
 - Well defined multi step processes
 - Infrequent; novice user - error prone



Demo



Q: WHAT ABOUT MOBILE? CAN I INTERACT WITH THE CHATBOT WHILE I AM ON THE GO?





Building your own JDE Chatbots

https://www.oracle.com/webfolder/technetwork/tutorials/jdedwards/White%20Papers/JdeChatBot_whitepaper.pdf

Virtual Assistant: High level build process



#	Description	What tool do you use?	Who would do it?	Comments
1	JD Edwards Orchestrations	<ul style="list-style-type: none">• JD Edwards Orchestration Studio	Business Analyst / Power user	<ul style="list-style-type: none">• Process automation blocks to perform actions• Develop orchestrations to automate the steps required to perform a business process or action.• Process automation blocks to perform actions in JD Edwards
2	Create a JD Edwards Bot	<ul style="list-style-type: none">• Autonomous Mobile Cloud Enterprise (AMCe)	Developer	<ul style="list-style-type: none">• Overlaying the Bot Development process with JDE vocabulary (intents and entities)• Connect the bot to JD Edwards orchestrations
3	Embed the bot into JD Edwards user experience	<ul style="list-style-type: none">• Autonomous Mobile Cloud Enterprise (AMCe) SDK• JDE E1 Page Manager	Developer	<ul style="list-style-type: none">• Packaging the bot into a format that can be consumed in JD Edwards user experience.
4	Run it!!	<ul style="list-style-type: none">• JD Edwards	End user	<ul style="list-style-type: none">• Seamless experience for the JD Edwards end users.

Virtual Assistant - Enterprise Scenarios



- Natural language interaction with the system



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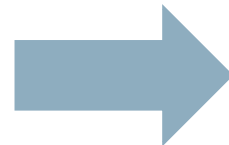


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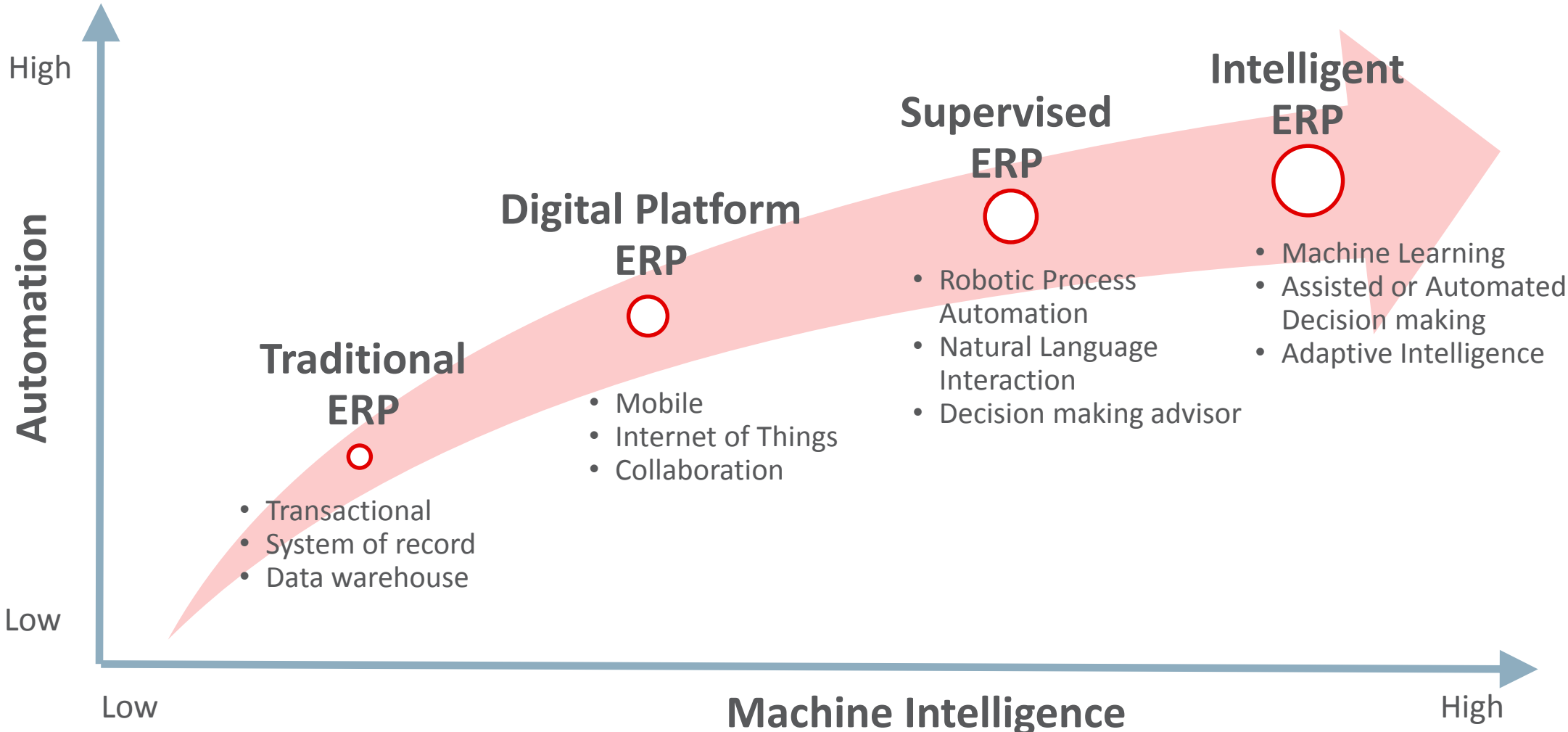
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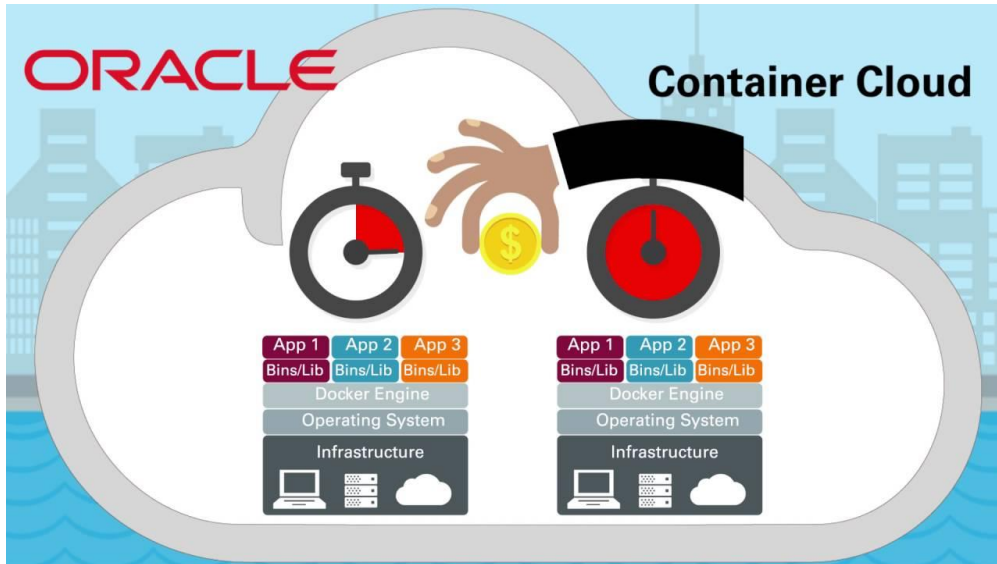


Virtual Assistant: Building intelligence

- Intelligence = the ability to perceive or infer information, and to retain it as knowledge to be applied towards adaptive behaviors within an environment or context.
- How do we perceive/infer and acquire knowledge?
 - Data & Information
 - Experience (learning)
- Artificial Intelligence:
 - Digitization of data over last 25+ years
 - Machine Learning

Intelligent ERP





Containers



Use case scenarios for JD Edwards E1

- **Rapid provisioning of instances**

- Development and test purposes: Cloud, local desktop/laptop, private data center
- Training purposes
- General disposable environments

- **Elastic scale up/down**

- Increase or decrease the number of replicas based on some threshold value such as the total number of connections.
- High availability/on-demand disaster recovery

- **Hot upgrades / patching**

- Upgrade JD Edwards instances with near zero downtime.

learnjde.com


White papers

 [Deploying Containerized JD Edwards EnterpriseOne on Oracle Cloud Infrastructure](#)

http://learnjde.com/jde_cloud.html#infrastructure-as-a-service

This white paper provides a technical overview of deploying containerized JD Edwards EnterpriseOne servers in Oracle Cloud Infrastructure to achieve high availability and scalability.

White papers

 [Deploying Containerized JD Edwards EnterpriseOne on Oracle Cloud Infrastructure Container Engine for Kubernetes](#)

http://learnjde.com/jde_cloud.html#infrastructure-as-a-service

Oracle Cloud Infrastructure Container Engine for Kubernetes (OKE) is a fully-managed, scalable, and highly available service that you can use to deploy your containerized applications to the cloud.

Containers: Feedback so far...

- Published white paper: Get it from www.learnjde.com
- Partner engagements:
 - Rapid provisioning
 - Demo environments, saving state with snapshots
 - Portability
 - Testing
- Customer engagements:
 - Rapid provisioning for transient environments (Demo, testing, evaluation)
 - Time zone implementation
 - Roll out to multi site, ease of maintenance
 - Patching

