

Digital Journey - Simple as ABC

***Patrick Thompson
Chief Information Officer
Albemarle***



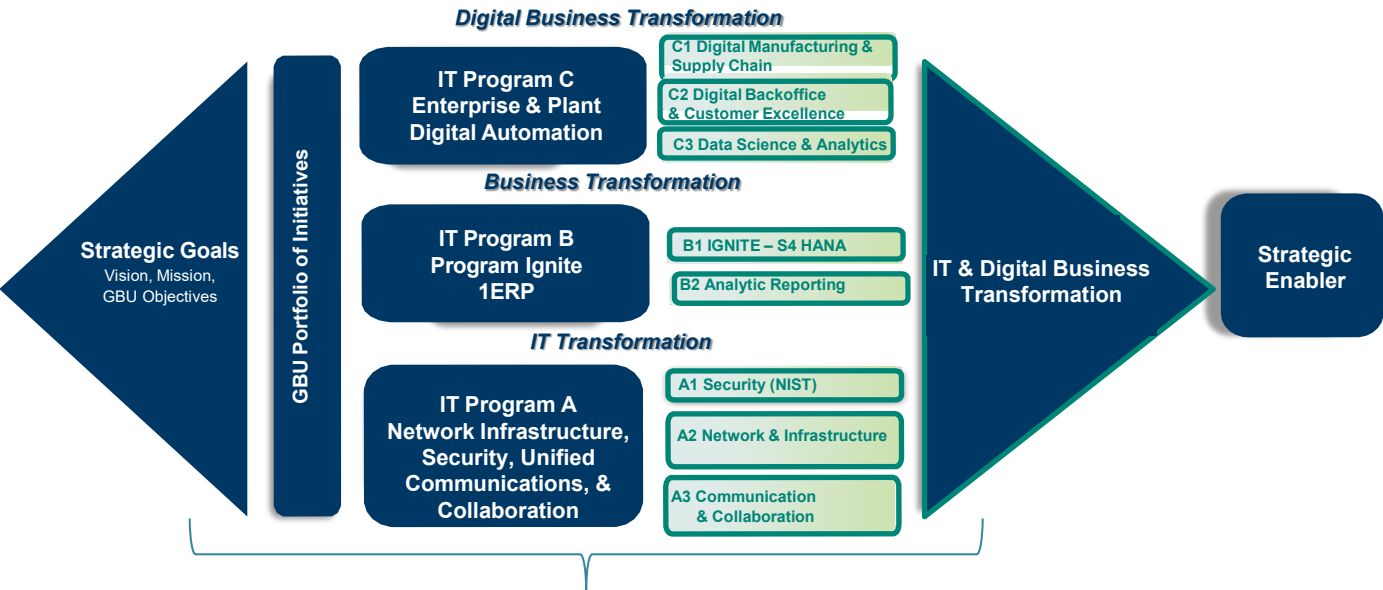
Global Business IT Strategy



Right Information. Right Time. Anywhere

Albemarle IT Mission

Right Information. Right Time. Anywhere!
Empowering our Employees Potential!



3 Strategic IT Transformation Program Workstreams

Digital Transformation Vision Road Map



Right Information. Right Time. Anywhere.

Shared Services
Efficiencies & Increased Scalability



Improve OEE Asset &
Quality Product Delivery

Digital Operations Centers



Ariba Supply Chain
Sourcing, Warehouse,
Delivery, Global Trade



Increase Observations
& Well Inspections to
Increase Asset
Performance



Business Process Mining &
Robotics Process Automation



Plant Historian
Osi Pi Analytics



LIMS
NWA Analytics



Drones & Digital
Cameras



Smart Helmet

Client
Retention & New Market Share



Salesforce Customer
Portals and Track &
Trace



Digital
BackOffice
Excellence

Digital
Manufacturing
Excellence

Digital
Supply Chain
Excellence

Digital
Customer
Excellence

Digital Drones
& Smart Helmet

Eliminate & Reduce
Incidents & Recordables



Drones & Digital
Cameras

Digital Twin
(Safety Auditor
Smart Helmet)

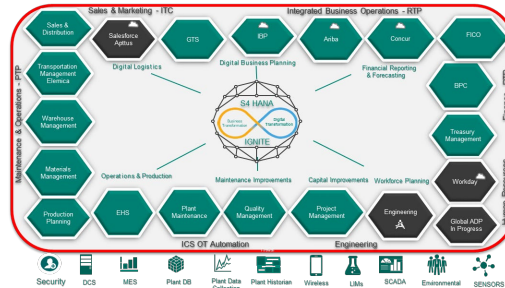


Digital
Workflow &
Mobility



Mobility

Fiori Employee
Productivity & Empowerment



Program A+B+C = Digital Business Transformation



Right Information, Right Time, Anywhere

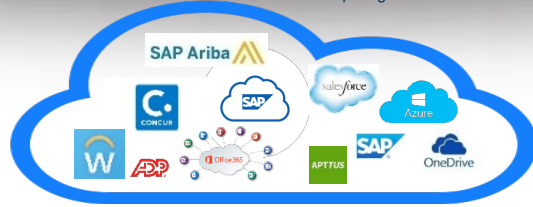
Engineering & HSE Apps



Collaboration
Albert, Sync, Share
ConvergePoint



Private & Public Cloud Computing



BYOD
Albert, Workflow, Communications,
Fiori, Cloud Apps, Office 365



3-1 Mobility Computing
Desktop/Laptop/Tablet

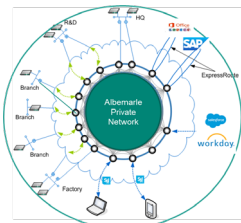


Always On - VPN Anywhere
SSO &
Self Service Password Reset

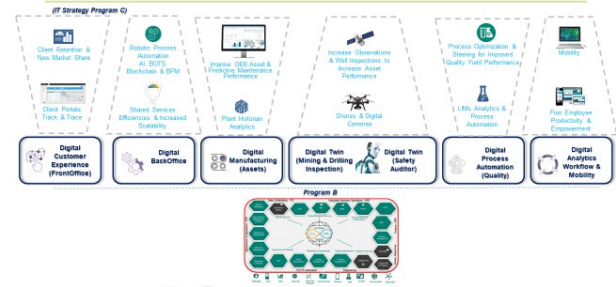
Plant
SharePoint Management of Change
(Lotus Notes Sunset)



Network & ICS
Zoning Improvements



Program C - Digital Business Transformation



OEE & Yield Improvements
Performance Analytics



Elemica
Transportation Management
Track & Trace



NIST, GDPR, DRM
Document & Record
Management

Category	Item	Status	Priority
Security	Document Management	Completed	High
	Record Management	In Progress	Medium
	Retention Policies	Not Started	Low
	Access Controls	Not Started	Low
Compliance	GDPR	Completed	High
	NIST	In Progress	Medium
	DRM	Not Started	Low
	Other	Not Started	Low



SAP S4 Fiori Support



Compliance, Financial, & Spend Analytic Dashboards

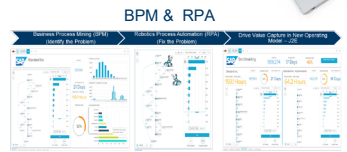


Total LCC Demand



Data Science & Analytics

python
databricks
GitHub

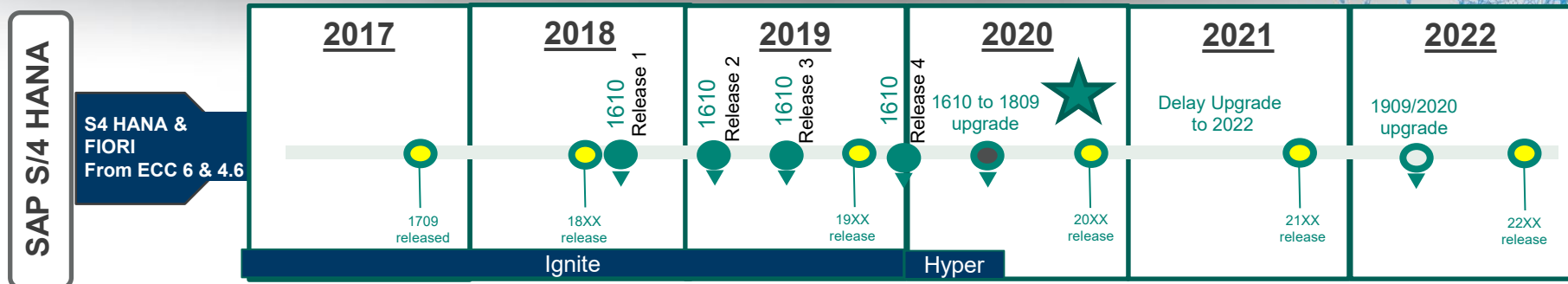


BPM & RPA

SAP S4 Upgrade Timeline – N-1 Strategy



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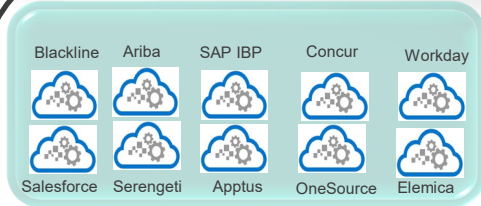


Description	Frequency Released by SAP	Frequency Applied by Albemarle
Error correction identified by project team	When identified	As needed
Activate new business functions	On going	As needed
Version updates	Quarterly	Quarterly post Ignite
Upgrades	Annual S4 N-1 Strategy	Annual Upgrades Keeping current N-1 SAP releases

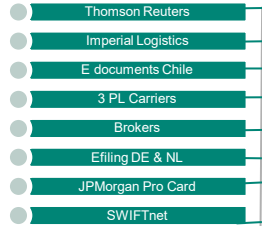
Albemarle Digital Core – SAP S4 HANA Landscape

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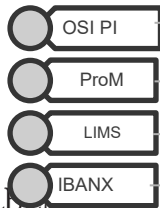
Cloud



3rd Party Integrations



On-Premise Integrations



User Access



S/4 HANA Enterprise Management



PI On-Premise Middleware

SAP Transportation Management
On Prem

SAP Global Trade Services
On Prem

Solution Manager



OPEN TEXT



HP ALM



Enable Now



BOBJ



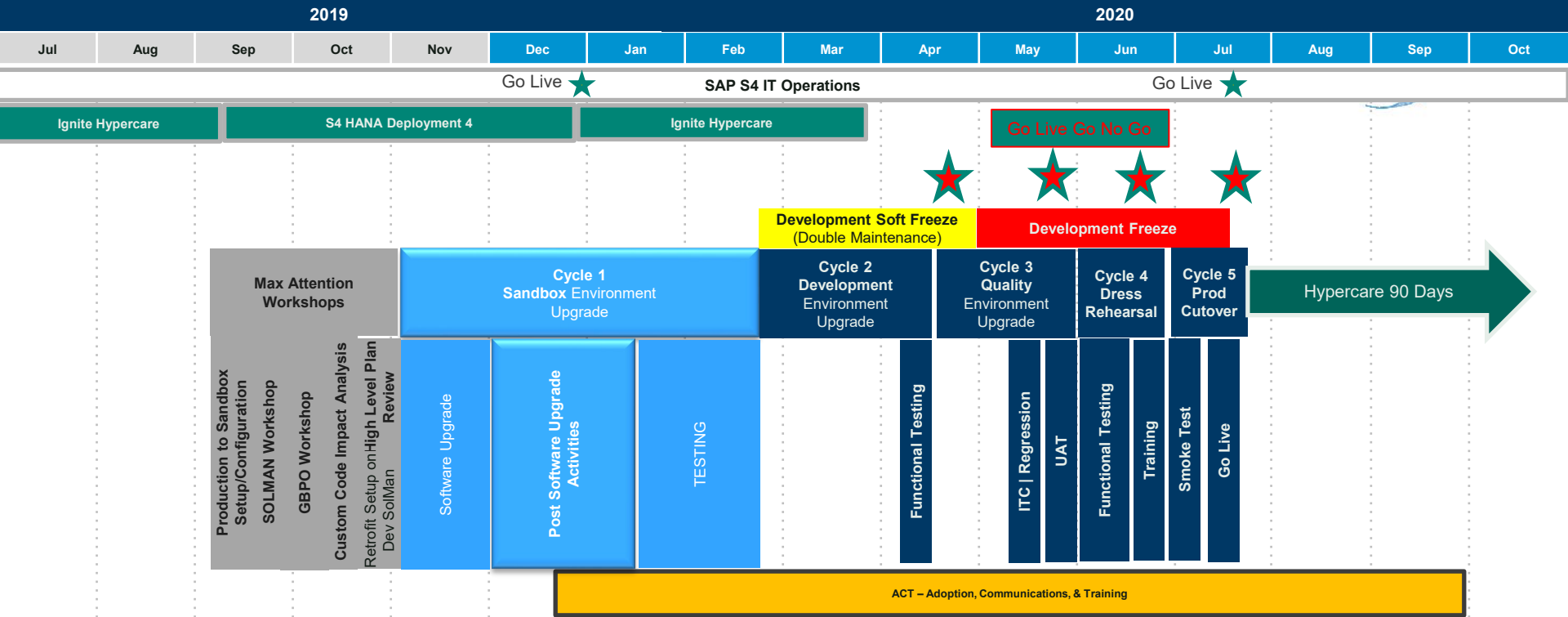
IS/DS Enterprise Hub



S4 HANA Upgrade 1610 to 1809



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Upgrade Cycle Descriptions

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S4HANA 1809 Upgrade Cycles

Cycle 1 Oct '19 – Feb '20	Cycle 2 March – Apr '20	Cycle 3 Apr – Jun '20	Cycle 4 Jun – Jul '20	Cycle 5 Jul '20
<p>S4P 1610 to SBX 1809</p> <p><u>Source / Target</u> S4P → SBX</p> <p><u>Steps</u></p> <ul style="list-style-type: none"> a) S4P 1610 copy to SBX b) upgrade to S4HANA 1809 <p><u>Purpose</u></p> <ul style="list-style-type: none"> Software Upgrade Trial Run Software Adjustments Create an Upgrade cookbook Estimate the technical runtime Testing 	<p>S41Dev 1610 to S4Dev 1809</p> <p><u>Source / Target</u> S41Dev → S4Dev</p> <p><u>Steps</u></p> <ul style="list-style-type: none"> a) S41Dev copy to S4Dev b) upgrade to S4HANA 1809 <p><u>Purpose</u></p> <ul style="list-style-type: none"> Software Upgrade Software Adjustments Update the Upgrade cookbook Estimate the technical runtime Testing Enable Retrofit for alignment between support landscape and upgrade landscape 	<p>S4P 1610 to S4Q 1809</p> <p><u>Source / Target</u> S4P → S4Q</p> <p><u>Steps</u></p> <ul style="list-style-type: none"> a) S4P 1610 to S4Q b) Upgrade to S4HANA 1809 <p><u>Purpose</u></p> <ul style="list-style-type: none"> Software Upgrade Software Adjustments – Transports from S4Dev to S4Q Update the Upgrade cookbook Estimate the technical runtime Testing UAT June Freeze Changes 	<p>S4P 1610 to S4Q 1809</p> <p><u>Source / Target</u> S4P → S4Q</p> <p><u>Steps</u></p> <ul style="list-style-type: none"> a) S4P to S4Q b) Upgrade to S4HANA 1809 c) Dress rehearsal cycle <p><u>Purpose</u></p> <ul style="list-style-type: none"> Run the whole upgrade like production upgrade with 24*7 simulation, following cookbook. Update cookbook if required. Time stamp 48 hours. 	<p>S4P Go-live</p> <p><u>Source / Target</u> S4P 1610 to S4 1809</p> <p><u>Steps</u></p> <ul style="list-style-type: none"> Upgrade S4P 1610 to 1809 S4Q transport to S4P 1809 <p><u>Purpose</u></p> <ul style="list-style-type: none"> Establish new S4P environment

Lessons Learned from Remote Upgrade

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- 1. Focus on the Plan***
- 2. Weekly Cadence using Microsoft TEAMS (face to face video)***
- 3. Make sure team members have a productive WFH environment***
- 4. WFH Productivity Incident Management and Business Process Improvements***
- 5. Training Recordings & Library***
- 6. TEAM Channels & Team Screen sharing solved problems faster***
- 7. 24 x 7 Global Support***
- 8. No Code Change & change management***
- 9. Focus on the Upgrade Features that will provide the Greatest Value***
- 10. Impressed with the Quality of SAP Upgrade (no technical upgrade issues)***

Questions & Answers

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Thank You!