Become a connected PHARMA & LIFE SCIENCES company

Dynamics for Pharma & Life Sciences introduction



Challenges faced by organizations



Regulatory compliance

The challenges of compliance and validation in pharma and life science are becoming increasingly complex and demanding. Keep track of market authorization, sellable days per country, approved customers/ manufacturers ...



Effective collaboration

Cooperation and connection beyond company and country borders are increasing in pharma & life science. This requires flexible and easy-to-use collaboration tools.



Time to market

Combining scientific innovation with patient-centric business needs means that time to market – from front end to clinical trials – is often under pressure



Security

Security risks are rising along with the complexity of processes and systems. Your ERP must support optimal security, traceability and electronic signature towards customers.



Dynamics for Pharma & Life Sciences helps you overcome challenges and become a connected company

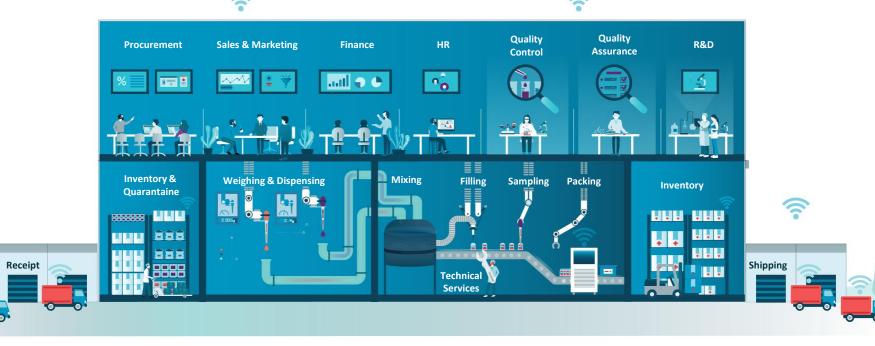




Dynamics for Pharma



End-to-End Solution



Dynamics for Pharma & Life Sciences

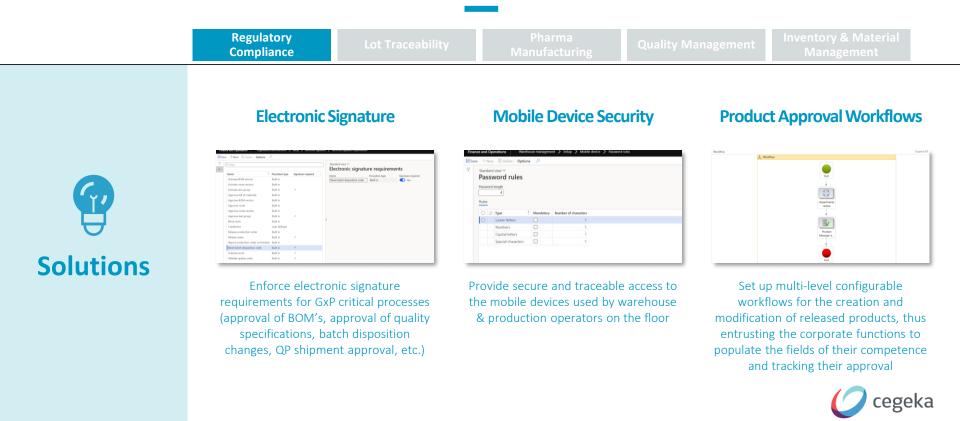
Overview of the Key Capabilities

💋 cegeka	cegeka Regulatory Compliance		t Traceability		rma acturing	Quality Manager	nent	Inventory & Material Management
	21 CFR Part 11 Compliant Electronic Signature	Container/Drum/Sub-Batch Management		Weighing 8	Dispensing	nsing Vendor & Manufactu Qualification/Appro		Temperature Monitoring
	Mobile Device Security	Advanced Product and Batch Numbering		Scales f	th Weighing or W&D, on and RAF	&D, Tost Group Manager		Sampling
Microsoft	Product Creation and Modification Approval Workflows		proved Customer/ pr/Manufacturer List	Tolerance N	lanagement	Statistical Test Crite		RF Scanning & Barcoding
Dynamics for PHARMA	Advanced Shelf Life Date Calculation Rules	Label Printing and Reprinting			liation of Components	Periodic/Skip Test	ing	Picking & Put Away Strategies
	Restrictions on Batch Disposition Changes	Batch Disposition Traceability		Consumptio	Production on in Mobile vice	Quality Orders for Tra & Sales Return	ansfer	Advanced Purchase Receipt in Mobile Device
	QP Shipment Approval	Forward/Backward Traceability & Recall Management			Reprocess gement	Quality Order Appr Workflow		Advanced Production RAF in Mobile Device
	Planning & Manufacturing Execution	n	Inventory Warehouse Man			Produ	Product Information Management	
Microsoft Dynamics	Project Management & Accounting		Expense Mana	gement Procurement and Sourcing			Asset Management	
	Marketing Management	t	Financial Management & Budgeting		М	Sales anagement		Human Resource Management
Business Intellig	gence Collat	ooration	n & Portals	Work	flow Manag	ement		Integrations

What our customers are looking for in a Pharma & Life Sciences Solution

	Regulatory Compliance	Lot Traceability	Pharma Manufacturing	Quality Management	Inventory & Material Management	
BARENTIVE	 Achieve and ma and guidelines organizations (I Produce and st maintain a tran audit trail for e Streamline Con in compliance of computerized st 	Regulatory Requ aintain compliance with from international age EMA, FDA, WHO, ICH, ore accurate and cons sparent and tamper-p lectronic records. nputer System Validati with GAMP5 risk-base systems, 21 CFR Part 1 folume 4 Annex 11 and	th GxP regulations encies and etc.). istent data, proof electronic ion (CSV) activities d approach for GxP 1, 21 CFR Part 820	****	****	

Overview of the Dynamics for Pharma & Life Sciences Solution

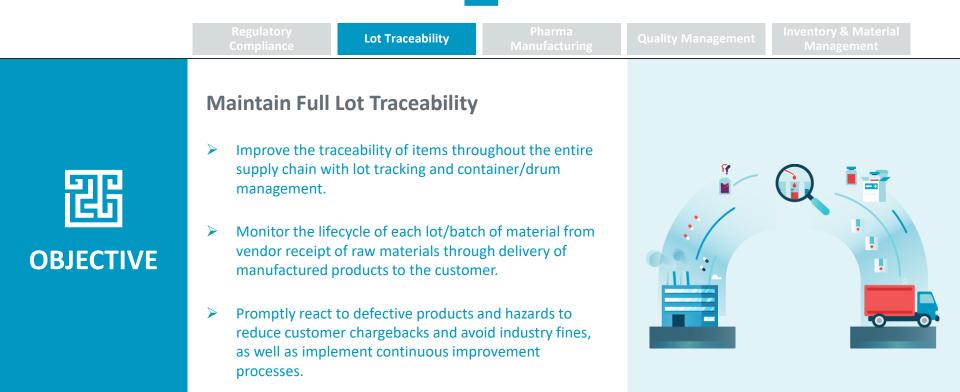


Overview of the Dynamics for Pharma & Life Sciences Solution

	Regulatory Compliance	Lot Traceability	Pharma Manufacturing	Quality Management	Inventory & Material Management
	Shelf Life	Dates	Batch Dispositio	n QP	Shipment Approval
Solutions	Alexandro A		Note: Control (Control (Contro) (Control (Contro) (Control (Contro) (Contro) (Contro		(a) bit a) distances See all all all all all all all all all a
Solutions	Automate shelf life (production date, e date, etc.) based manufacturi	xpiry date, retest on product and	Segregate specific batch dis changes to selected combin security roles	ations of material u	nt the shipment of specific nless approved and signed off an authorized user (QP)

cegeka

What our customers are looking for in a Pharma & Life Sciences Solution



Overview of the Dynamics for Pharma & Life Sciences Solution

	Regulatory Compliance Lot Traceabi	lity Pharma Manufacturing	Quality Manag		entory & Mate Management	
	Container/Drum Management	Product & Lot Num		Ap Listomer/Ver	proved Idor/Manu	facture
Solutions	A JUNE SEARCH SE	Anton Bancher Mathematical States and State	entry tresactions Production status Greated	Culterer ecourt Product del type US-00 Table US-011 Group US-031 Group	Item relation Vender account AP210017 US-104 CONTROLAPI US-104 CONTROLAPI US-104	Manufacturer WEST EVON WEST
Solutions	Uniquely identify each container/drum that is part of a specific lot, and maintain full traceability throughout the entire	Automatically generate pro numbers based on configur thus providing flexibility to company-specific requir	able rules, f meet the	Enforce approv from the custom of the starting mai	er back to the	supplier

supply chain



Overview of the Dynamics for Pharma & Life Sciences Solution

Label Printing	& Reprinting	Batch Disposition Trac	eability Lot	Traceability & Recall	
Regulatory Compliance	Lot Traceability	Pharma Manufacturing	Quality Management	Inventory & Material Management	

Label Printing & Reprinting

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100-0010	Two articles to	4-0004	Actor Plantamiltal Reputant (21 prod.	Photosophies .	1	where the second	STATES HAD AN

Meet legal requirements for the labels set by federal law and specific regulations by tracking printing and reprinting activities for any type of label

Solutions

Capture the disposition status of the material in any transaction to analyze the evolution of the quality status of a particular batch and easily inspect the history

Lot Traceability & Recall

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$\dot{\mathbf{x}}$		Item tracing
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Ð		Trace ^
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		FP000001 • Counting + 8/01/0020 • -800.00 pcs + Siter-ARD/Wavehouse+WH ARD/Location+PROD-RAU/Inventory status=Available/License plater/VUN-125455.5845h nu
		 ReCEDIA + Counting - + 8/12/2020 + 100,000.00 pcs + SterrARD,WawhouserWHARD,LocationsPRCO-INPUT,Batch numbers 1234
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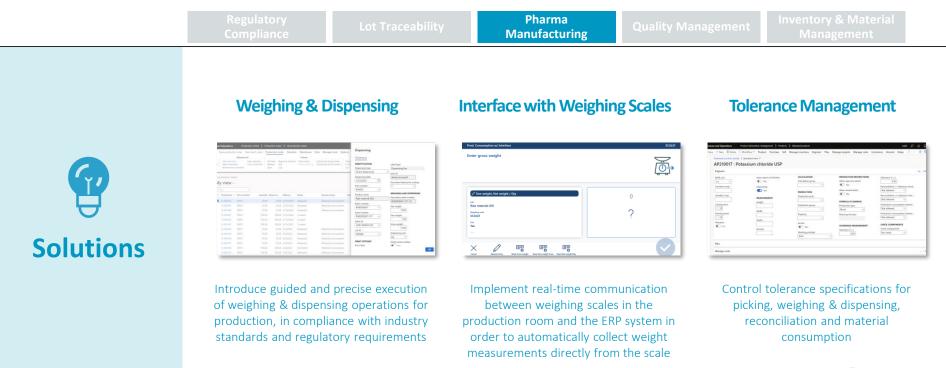
Get a complete end-to-end view on the process flow of every single lot and the involved customers, suppliers, locations, production orders, quality orders... allowing appropriate and immediate actions in case of a recall



What our customers are looking for in a Pharma & Life Sciences Solution

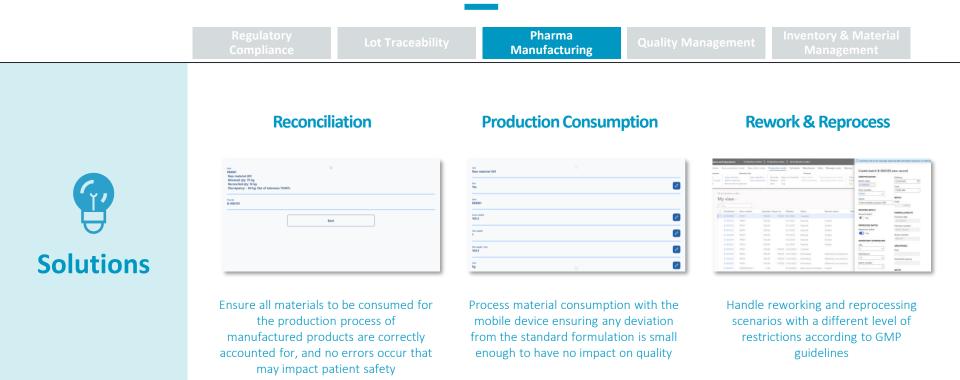


Overview of the Dynamics for Pharma & Life Sciences Solution





Overview of the Dynamics for Pharma & Life Sciences Solution

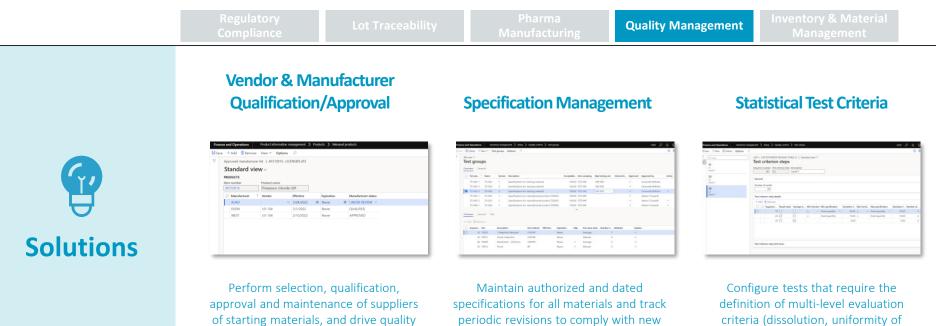




What our customers are looking for in a Pharma & Life Sciences Solution



Overview of the Dynamics for Pharma & Life Sciences Solution



editions of national pharmacopoeias or

other official compendia

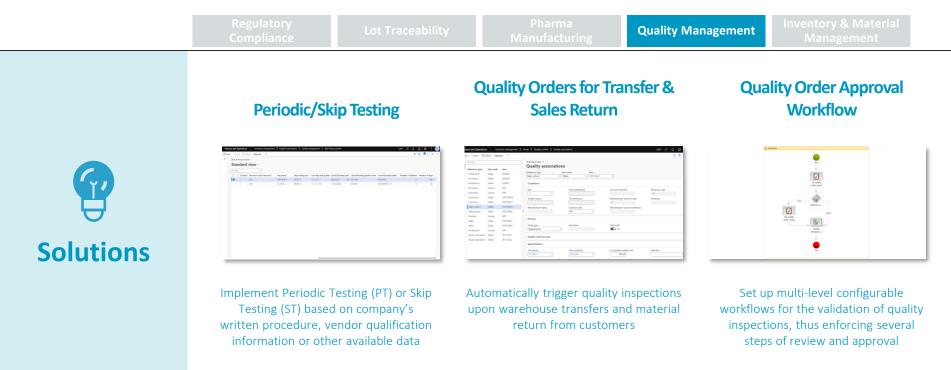
control activities based on the

qualification/approval status

dosage, etc.)



Overview of the Dynamics for Pharma & Life Sciences Solution

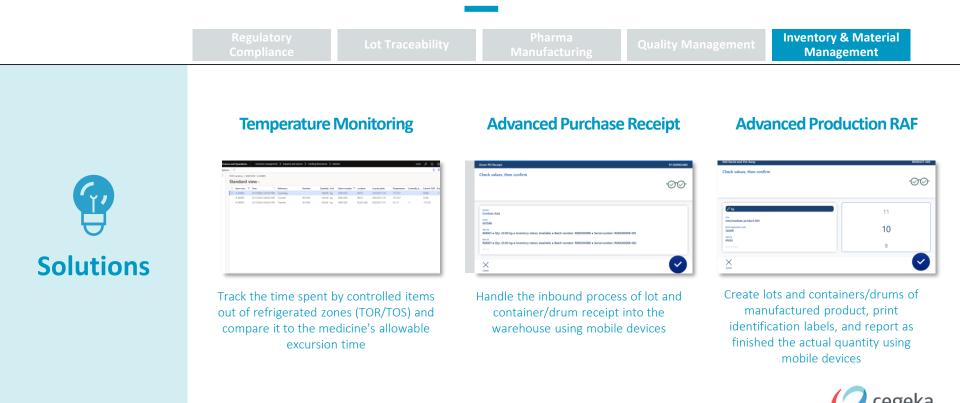




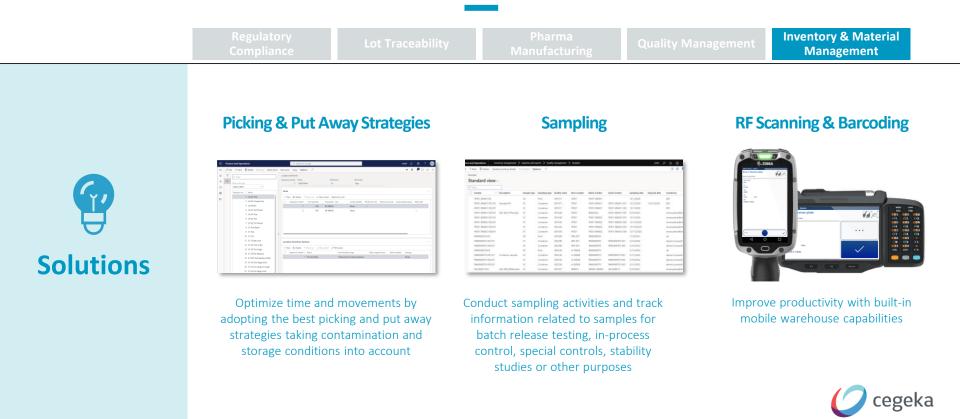
What our customers are looking for in a Pharma & Life Sciences Solution



Overview of the Dynamics for Pharma & Life Sciences Solution



Overview of the Dynamics for Pharma & Life Sciences Solution

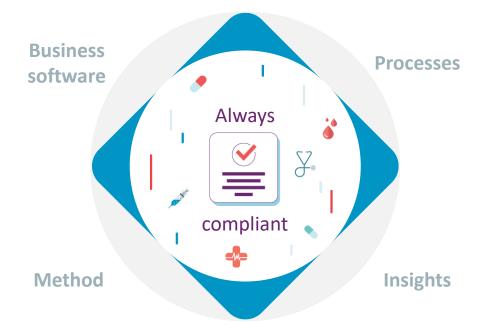


Dynamics for Pharma & Life Sciences combines **business software** with industry best practice **processes, insights** and a proven **methodology** to successfully implement



Dynamics for Pharma & Life Sciences

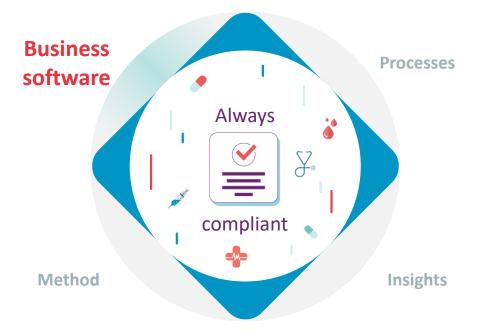
Building business continuity through intelligent, unified systems



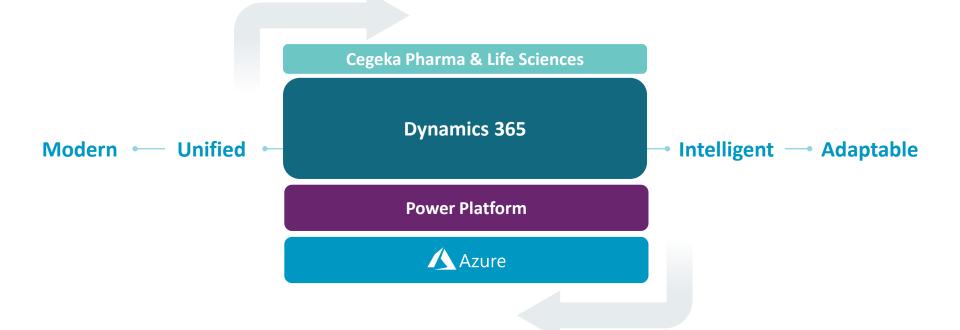


Dynamics for Pharma & Life Sciences

Building business continuity through intelligent, unified systems

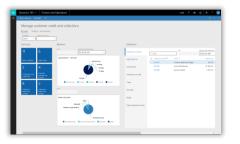








Modern



User friendly boosting adoption

The interface is intended to guide the user to those processes that need attention (manage by exception). It offers a modern user experience and enables faster adoption.

Cegeka Pharma & Life Sciences Dynamics 365 Power Platform Image: Azure



Available Anywhere Anytime

The user interface is web based and enriched with specific apps making the solution anywhere available, on any device and any time. Fully secure thanks to the underlying Microsoft Azure cloud.

Higher Productivity

Dynamics 365 is deeply integrated with Microsoft Office apps such as Excel or Outlook. This offers users additional capabilities and improves their productivity.

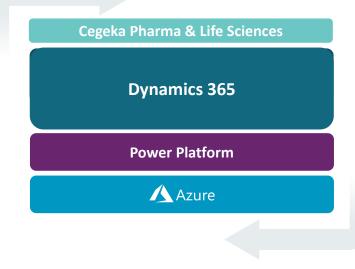


Unified



Unified Data Model

Get rid of data silos. Dynamics 365 brings all data into one unified data model. This allows your organization to work together cross department or cross countries.





Integrated

Dynamics 365 and the underpinning Azure cloud platform offer extensive integration service to connect Dynamics internally and externally



Business Security

Dynamics 365 ensures data integrity and privacy within your organization; the underlying Azure Cloud-platform offers data backups and allows you to stay in line with regulations.





Scalability – grow with you

Within the Dynamics 365 platform you can easily add additional workloads, countries and/ or users allow you to grow with your business.

Adaptable



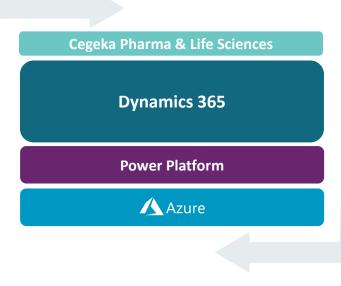
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Extend & Automate

Thanks to the Power Platform, the Microsoft low code solution embedded in Dynamics 365, you can easily extend the capabilities and automate processes between different applications.

Flexible - Ownership

You can take ownership and modify, processes and workflows without the need for external partners to adapt to changed business circumstances and grab new opportunities.







Business Intelligence

Power BI dashboards are embedded in Dynamics 365 offering advanced insights. Drill down to details without switching apps and allowing users to take better decisions.



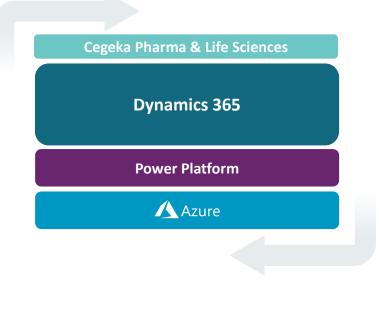
Intelligent processes

Offering Al-powered capabilities such as customer payment predictions or intelligent budget proposals. Making innovative technologies easily availability to improve your efficiency.

Advanced guidance

With Mixed Reality capabilities in Dynamics 365, you can give your employees the expert guidance wherever they are.

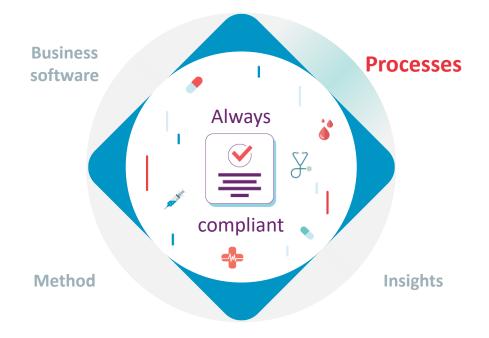
Intelligent





Dynamics for Pharma & Life Sciences

Building business continuity through intelligent, unified systems





Processes

Dynamics for Pharma & Life Sciences offers pharma industry specific processes

Processes



- 495 Best Practice Processes
- Pharma Industry Specific
 Processes

Industry Accelerator Checklist

* 🏮 Check Lists for Internal Use

- Oheck Lists Sales and Marketing
 - Check List Determine Sales Related Product Data
 - 🌒 Check Lists New Sales
 - Check Lists Customer Management

Check List - Register New Suspect/Prospect
Check List - Update Suspect/Prospect Data
Check List - Convert Prospect to Customer
Check List - Register New Customer

- Questions per process
- Collecting a comprehensive set of requirements

Quality Assurance Descriptions

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– End-2-end _

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 Prerequisties and Setup

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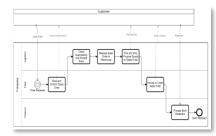
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- Starting point for work instructions
- Starting point for As Build documentation

Fully Documented



- Cross department value
 streams
- Helicopter view

End-2-end Optimization



Processes

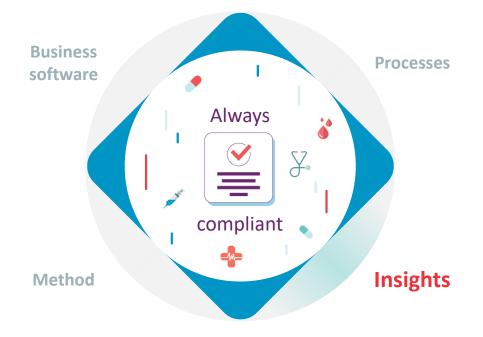
GxP assessment for Pharma & Life Sciences processes

Process Area	GxP-Critical Processes per Process Area	Total Processes per Process Area
Finance Controlling & Reporting	2	162
Logistics, Warehouse and Distribution	108	136
Manufacturing	22	26
Planning	7	25
Product Life Cycle Management	15	15
Quality Management	9	9
Sales and Marketing	17	77
Sourcing and Procurement	24	45
TOTAL	204	495



Dynamics for Pharma & Life Sciences

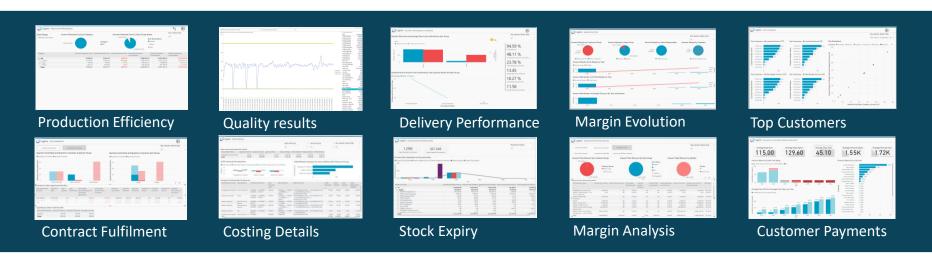
Building business continuity through intelligent, unified systems

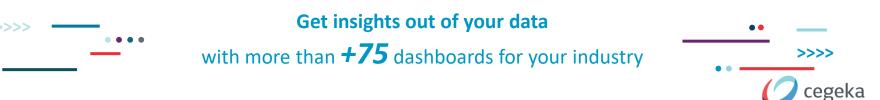




Business Insights

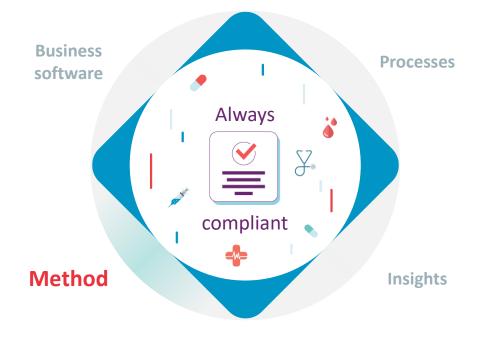
Dynamics for Pharma & Life Sciences offers out of the box insights and dashboards





Dynamics for Pharma & Life Sciences

Building business continuity through intelligent, unified systems





Proven Methodology

Dynamics for Pharma & Life Sciences is implemented using a proven methodology



Fully Documented

- Templates
- Instructions

Transparent & Predictable



Supporting Tools

- Collaboration tools
- Documentation & Reporting

Collaborative & In Control



Academy & Guidance

- Trainings
- Coaching

Professional & Proven



Proven Methodology

Solution and approach validated by independent software validation companies





Methodology



The **Cegeka Dynamics Pharma & Life Sciences solution** is, from a regulatory perspective, fit and documented for intended use in the Pharma and Medical device industry



Software validation partner: Epista Life Science



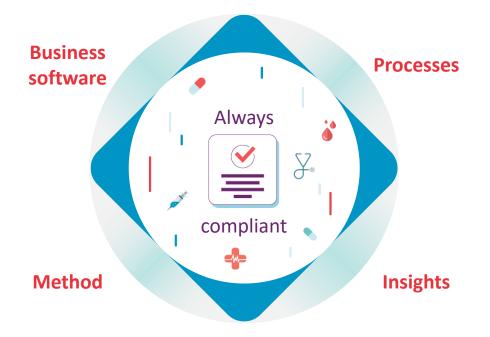
Dynamics 365 complies with Good Clinical, Distribution, Laboratory, and Manufacturing Practices (GxP): <u>Microsoft GxP documentation</u> System validation is embedded in every phase of our project methodology and fully aligned with the required validation deliverables according to GAMP 5 recommendations

ICH Guidance Q8, Q9 and Q10

Pharma EU: EudraLex Volume 4: Annex 11 Information Technology, Annex 15 Qualification, and validation Medical Device EU: MDR 2017/745 Appendix 1, chapter 1 part 17. OECD SERIES ON PRINCIPLES OF GOOD LABORATORY PRACTICE AND COMPLIANCE MONITORING Number 17 - Application of GLP Principles to Computerized Systems US: 21 CFR Part 11: Electronic Records and Electronic Signatures GAMP 5: A Risk-Based Approach to Compliant GxP Computerized Systems ISO/IEC 12207 - Systems and software engineering ISO/IEC 90003 Software engineering — guidelines for the application of ISO9001:2015 to computer software

Dynamics for Pharma & Life Sciences

Building business continuity through intelligent, unified systems









https://www.cegeka.com/en/be/solutions/dynamics365/industries/pharma



https://www.linkedin.com/showcase/cegeka-business-solutions/



https://www.youtube.com/c/cegekabusinesssolutions