Label
PrintCockpit

Kostenoptimierte Umsetzung der Anforderungen an die Produktsicherheit mit REACh & GHS-Lösungen von Atos

Die GHS-Verordnung ist nach der REACh-Verordnung das zweite große Vorhaben der Europäischen Union in der Chemikalienpolitik. Schon seit vielen Jahrzehnten stehen Hersteller und Händler von Chemikalien vor dem Problem, dass in den einzelnen Ländern sowie im internationalen Transportrecht unterschiedliche Einstufung durch Klassifizierung und Kennzeichnung von Chemikalien gelten – was in den Unternehmen einen hohen Arbeitsaufwand und steigende Kosten verursacht.

Mit der GHS-Verordnung ist das weltweit geltende UN-System zur Einstufung und Kennzeichnung von Chemikalien mit Übergangsregelungen auch in Europa in Kraft getreten. Es löst das System nach der Stoff- und Zubereitungsrichtlinie ab. Seit 1. Dezember 2010 müssen Stoffe, bis zum 15. Juni 2015 Gemische neu eingestuft und gekennzeichnet werden.

Atos bietet mit seinem Partner ebsoft mit dem LabelPrintCockpit eine flexible, einheitliche, sichere und schnelle auf SAP basierende Lösung, mit der Sie die Anforderungen zur konformen Umsetzung von GHS (Globally Harmonised System of Classification and Labelling of Chemicals) erfüllen.

Genau wie REACh sieht auch die GHS-Verordnung umfassende Kommunikationspflichten in der Lieferkette vor. Neben der sukzessiven Neuerstellung der Sicherheitsdatenblätter ist auch eine erhöhte Aufmerksamkeit hinsichtlich der Liefer- und Produktionssicherheit gefordert, denn die Auswirkungen auf benachbarte Rechtsbereiche wie Transport-, Gefahrgut- und Störfallrecht oder Arbeitsschutz sind vielfältig. GHS betrifft alle Abläufe in Verbindung mit Umgang, Lagerung und Weitergabe von Chemikalien.

Die Umsetzung von GHS und REACh ist aufwendig und eng miteinander verknüpft – ein Aufwand, der in vielen Unternehmen mit den vorhandenen Ressourcen kaum noch zu bewältigen ist. Das Risiko der Noncompliance steigt und kann erhebliche Konsequenzen haben:

▶ Verzögerungen bei Produkteinführungen
▶ Imageschäden
▶ Erhebliche Strafen und Bußgelder
▶ Unzufriedene Kunden

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals
EH&S: Environment Health & Safety

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LabelPrintCockpit

Unsere Lösung

Im Rahmen unseres umfangreichen EH&S- und REACh-Portfolios bietet Ihnen Atos zusammen mit ebsoft eine Lösung, mit der sich Gefahrstoff-, Gefahrgut-, Produkt und Logistiketiketten sofort, schnell und fehlerfrei erstellen lassen: als Einzel- oder Kombietiketten, nach den bisher geltenden EU-Richtlinien oder der neuen GHS-Verordnung. Als end-to-end-Partner bieten wir Ihnen nicht nur die Implementierung der Software, sondern können nach erfolgreicher Einführung auch deren Betrieb übernehmen.

Das Lösungspaket LabelPrintCockpit bietet zahlreiche Vorteile:

▶ **Flexibilität:** Die Lösung lässt sich optimal auf Ihre individuellen Anforderungen und Geschäftsprozesse anpassen. Dabei ist auch die Erstellung kostengünstiger Spezialetiketten mit standardisierten Formaten möglich.

▶ **Integration:** Nahezu vollständige Prozessautomatisierung, das Datenmanagement erfolgt zentral im SAP ERP und EH&S System (auch mittels Managed Regulatory Content)

▶ **Vereinheitlichung:** Durch die zentrale Datenhaltung ist ein einheitlicher Datenstand auf MSDS (Material Safety Data Sheet), Etiketten und allen weiteren Regulatory Dokumenten sichergestellt.

▶ **Sicherheit:** Die zugrunde liegende Datenbasis ermöglicht größtmögliche Kennzeichnungssicherheit. Das LabelPrintCockpit ist eigens für die Bedürfnisse der chemischen Industrie entwickelt und spiegelt die Erfahrungen aus allen Kundenprojekten wider.

▶ **Schneller Einsatz:** Die Software ist innerhalb kürzester Zeit einführbar und bei Bedarf auch sofort einsatzfähig im Intra- und im Intranet.

Atos und ebSoft bieten Ihnen einen professionellen, verlässlichen und weltweiten Service und Support.

Beispiel eines Labels

Sichere und kostendämpfende Klassifizierung und Kennzeichnung von Chemikalien nach EU-Regeln. Atos und ebsoft bieten professionellen, zuverlässigen und weltweiten Service und Support.

Ihr Nutzen

▶ Zuverlässige, vorkonfigurierte Software-Lösung

▶ Schnelle Einführung zu fest kalkulierbaren Kosten

▶ Schnelle Erreichung des ROIs

▶ Flexible Wartungs- und Supportkonzepte mit geringen Wartungskosten

▶ Sicherstellung von Compliance und Risikominimierung durch Konformität mit GHS, REACH und anderen Regularien

Systemeigenschaften

▶ Direkte Verwendung von produktbezogenen Daten aus SAP SD, MM, PP-PI und EH&S

▶ Bereitstellung der für die Gefahrstoff-/Gefahrgutkennzeichnung erforderlichen Daten in über 30 Sprachen in Unicode

▶ Für die EU-Richtlinien: z.B. R-Sätze, S-Sätze, Zusatztexte, Gefahrensymbole, kennzeichnungspflichtige Stoffe mit Einstufungsvorschriften nach EU-Richtlinien, Verarbeitungssymbole

▶ Für die GHS-Richtlinien: z.B. H-Sätze, P-Sätze, Zusatztexte, kennzeichnungspflichtige Stoffe mit Einstufungsvorschriften nach GHS-Richtlinien, Verarbeitungssymbole

▶ Für die Gefahrgutkennzeichnung: mit technischer Bezeichnung (Proper Shipping Name), Gefahrgutsymbole für ADR, IMG, IATA

▶ automatische Generierung der Etiketten in den gewünschten Sprachvarianten, wahlweise nach den EU- oder GHS-Richtlinien

Key Facts

▶ Erfolgreich eingeführtes System bei einem großen Mittelständler der Chemiebranche

▶ Zusammen mit unseren globalen Partnern (SAP, IHS und ebsoft) haben wir ein umfassendes Enterprise Compliance Lösungsangebot entwickelt, welches unseren Kunden die sichere Einführung komplexer, globaler Regularien und Verordnungen sicherstellt

▶ Zuverlässige Partner für Compliance Themen in der Chemieindustrie

▶ Globale SAP-Partnerschaft

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Label Print Cockpit

Fully SAP integrated Label Printing

with distinguished layouting and printing functions

September 20th, 2014

# Label Printing is a challenge

Requirements and constraints define the focus, …

Diversified IT Solutions

Dangerous Goods

No profit contribution

Product Safety/GHS

Legal Requirements

Cost

Customer Requirements

Colours and Forms

Specific Labels

Corporate Design

Internal Requirements

Frequent Changes

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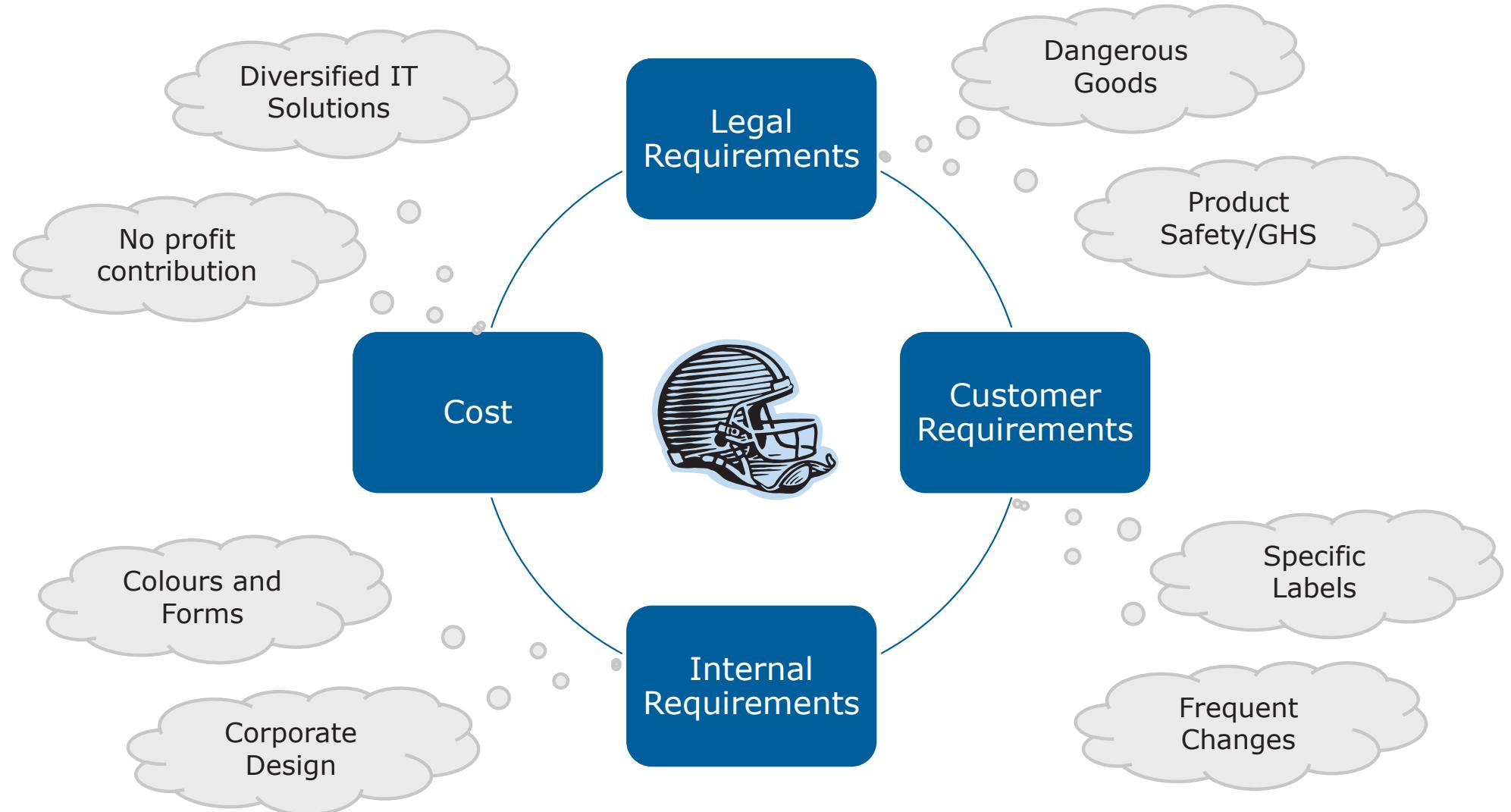
Label Printing is a challenge

..., increase continuously, ...

Atos
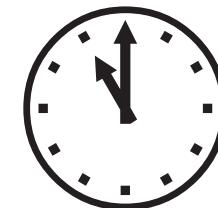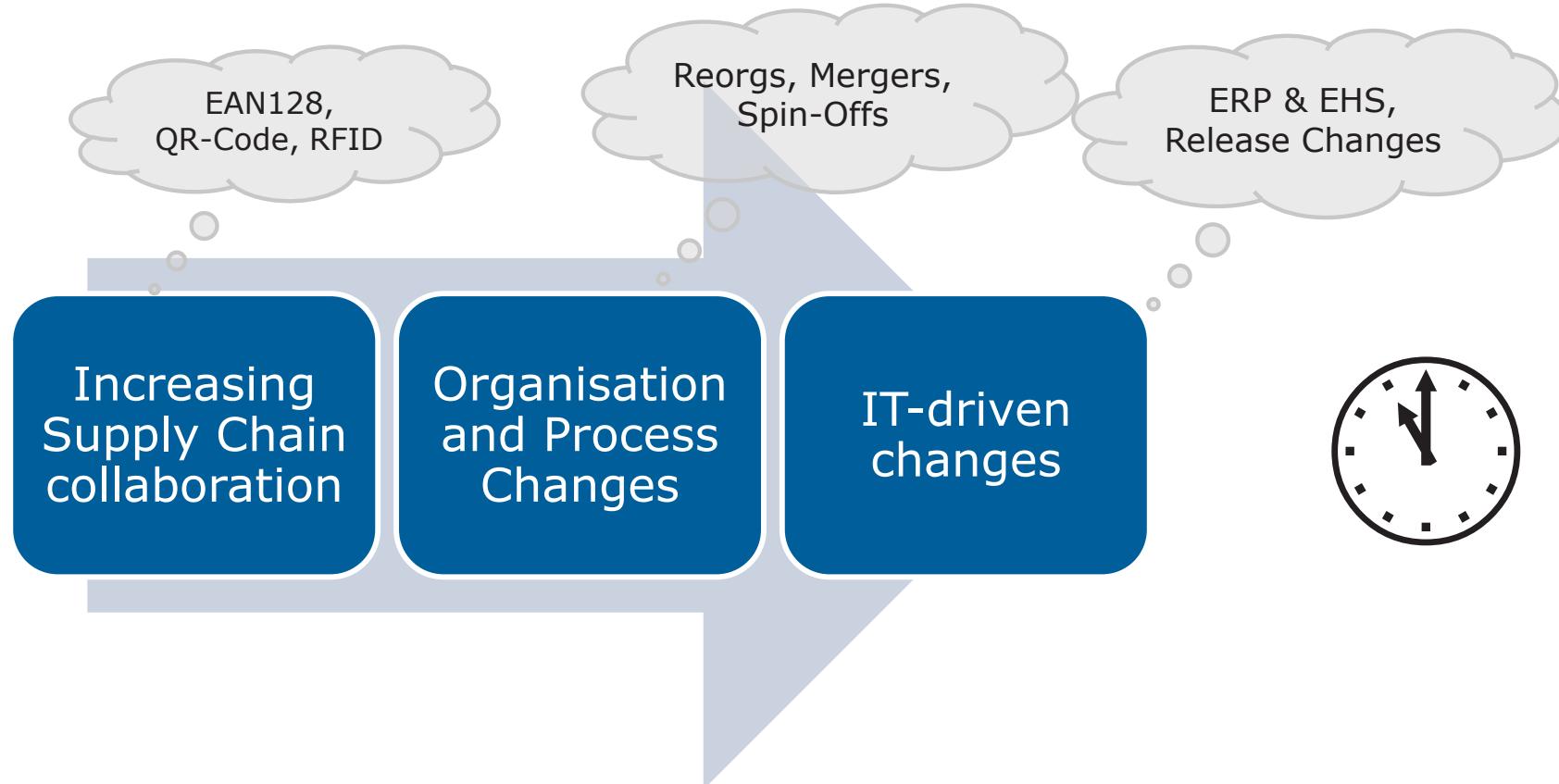
Label Printing is a challenge

... and finally result in uncontrollable situations

Lack of Concept
- comprehensive concept missing
- budget restrictions
- quick and simple reaction on demands

Diversi-fication
- business processes
- IT landscape and technology
- integration and consistency

Cost Spiral
- overall process knowledge lost
- IT knowledge isolated in individuals
- cost and risk increases more and more
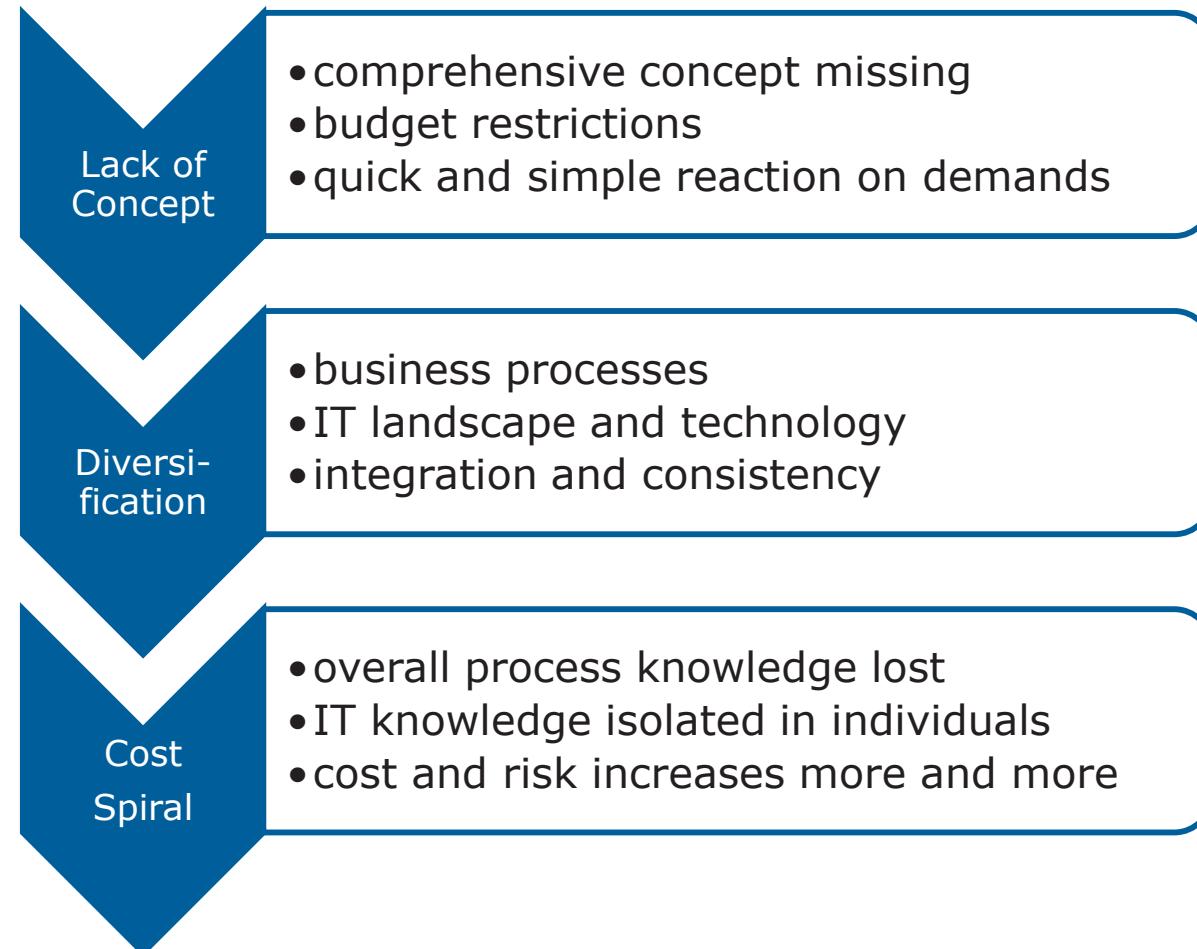
Sustainable, calculable and projectable labelling needed!

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Label Printing is comprehensive

It is worthwhile to treat labelling as a subject of its own

- ▶ all requirements from all departments are reasonable
- ▶ requirements can be contradictory
- ▶ space on packaging is limited
- ▶ space on labels is limited
- ▶ time for physical labelling is limited
- ▶ local optimisations not always in corporate interest
- ▶ IT can not solve collaborative issues.

- ▶ Business Collaboration

IT and the label printing solution support the comprehensive and collaborative approach!

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Label Printing is dynamic

Change is normal

Planned Tests and Go-Lives

Methodical Implementation

Aligned Requirements

Central Labelling Solution
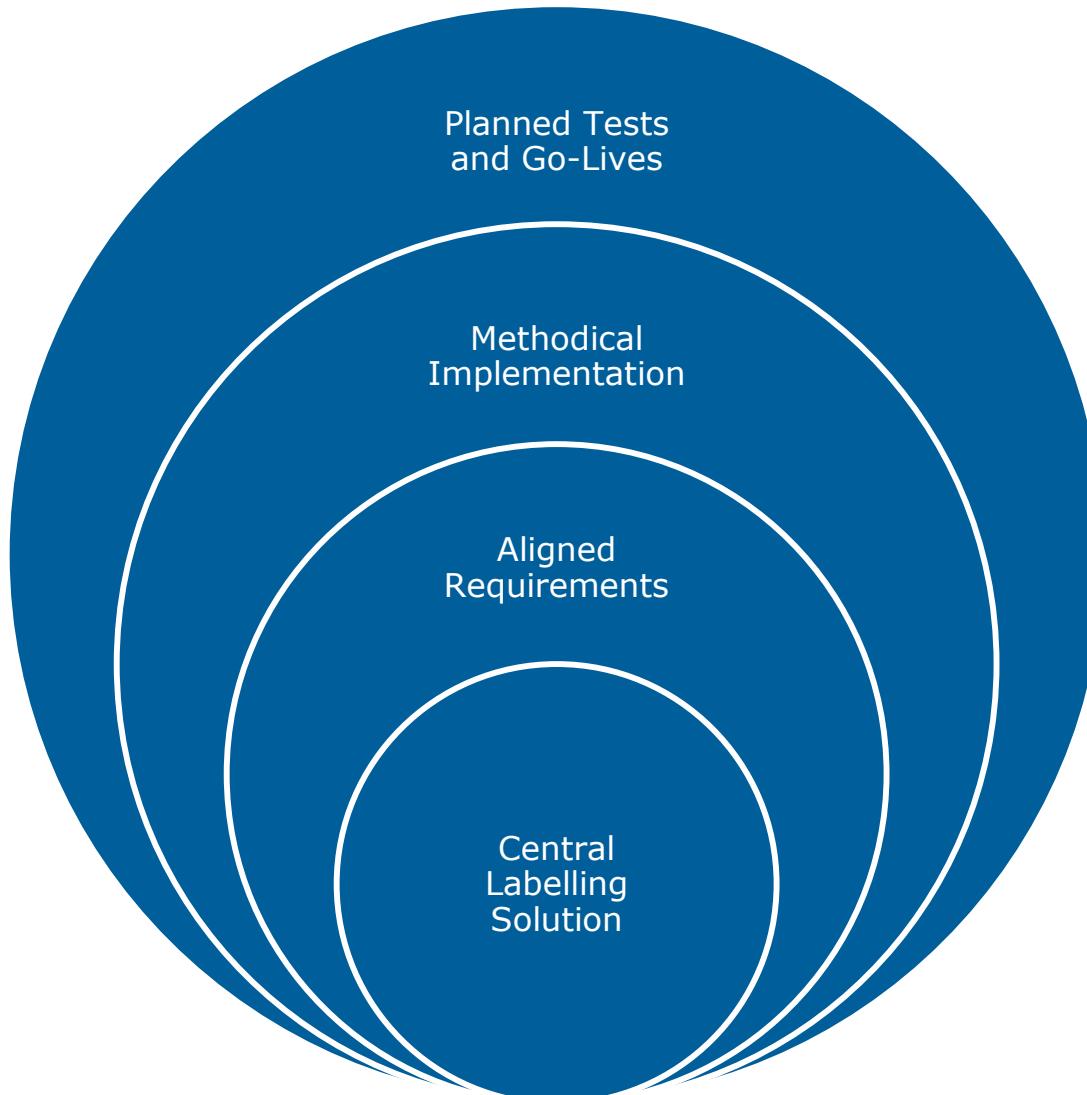
Change Management

change organisation

standardised and available IT skills

common language round tables

reliability through projectability

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Label Printing is full of potential

Change Focus from Cost to Benefit

Most appropriate technology for each printing step

SAP transaction, minimized and verified user input

Faultless Printing

data online from SAP

Best Printing

Simplified Printing

automated SAP in-process printing

No redundant labelling

Windows Printers

Early Printing

Barcodes and Scanncers to optimize logistics

Integration into Production, Warehouse, Label Dispensers, ...

Intelligent labelling reduces supply chain cost!

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Atos Label Print Cockpit (LPC)

Focal Points

SAP Integrated
- LPC *in* SAP, not attached to SAP
- user transactions
- process messages
- authority checks
- data on hand
- configurat. subject to SAP transports

Centralised
- all rules for routing, data access, formatting in LPC transaction
- version controlled layouts and data (optional)
- full control of printed data
- full logging

Flexible
- customized and table-controlled rules for adoption to SAP ERP and EH&S setup
- ABAP plugins supported
- simple, fast, immediate testing
- all MS-Windows printers / output devices

Compliance
- developed for high requ'mts. in chemical industry
- legal
- customer
- diverse operations processes, volumes
- languages
- pictograms
- colours
- consistency w/documents
- tracking and tracing
- reprint

Customer Autonomy
- system behaviour and business rules defined in setup, not programmed
- setup can be done by customer
- ABAP progr. exits available

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Atos Label Print Cockpit (LPC)

Basic System Components

Label Print Requests by User (SAP Transaction) or automated in-process

SAP

Atos LPC

Layout Transfer

EB-Soft Layout Editor

Label Print Requests with layout and data

EB-Soft Print Server

Application to create MS Windows spool files for installed printers

Microsoft Windows Spooling + Printing

► *EB-Soft Layout Editor* layout design

► *Atos LPC* (in SAP) layout repository, business rules, printing initiation

► *EB-Soft Print Server* print job preparation

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Atos Label Print Cockpit (LPC)

Basic System Components in complex SAP Environment

▶ even for multiple SAP systems, only the base components are required

▶ customizable data access between LPCs on different SAP systems or clients

SAP ERP #1
Atos LPC

EB-Soft Layout Editor

Layout Transfer

SAP EH&S
Atos LPC

online data transfer from remote LPCs to local LPC (RFC)

SAP ERP #2
Atos LPC

EB-Soft Print Server

Label Print Requests

EB-Soft Print Server

EB-Soft Print Server

Microsoft Windows Spooling + Printing

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Atos Label Print Cockpit (LPC)

Solution Details

1	Layout Design
2	Print Initiation and Routing
3	Data Access and Data Formatting
4	Label Output
5	Logging
6	Versioning and Release Scenarios

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Atos Label Print Cockpit (LPC)

Layout Design

- ▶ WYSIWYG Layouting
- ▶ also supports demanding designs
- ▶ layout transfer to LPC
- ▶ versioning and release in LPC

- ▶ layouts define fields with position, size and appearance
- ▶ fields are anonymous placeholders for data
- ▶ layouts are generally independent of data
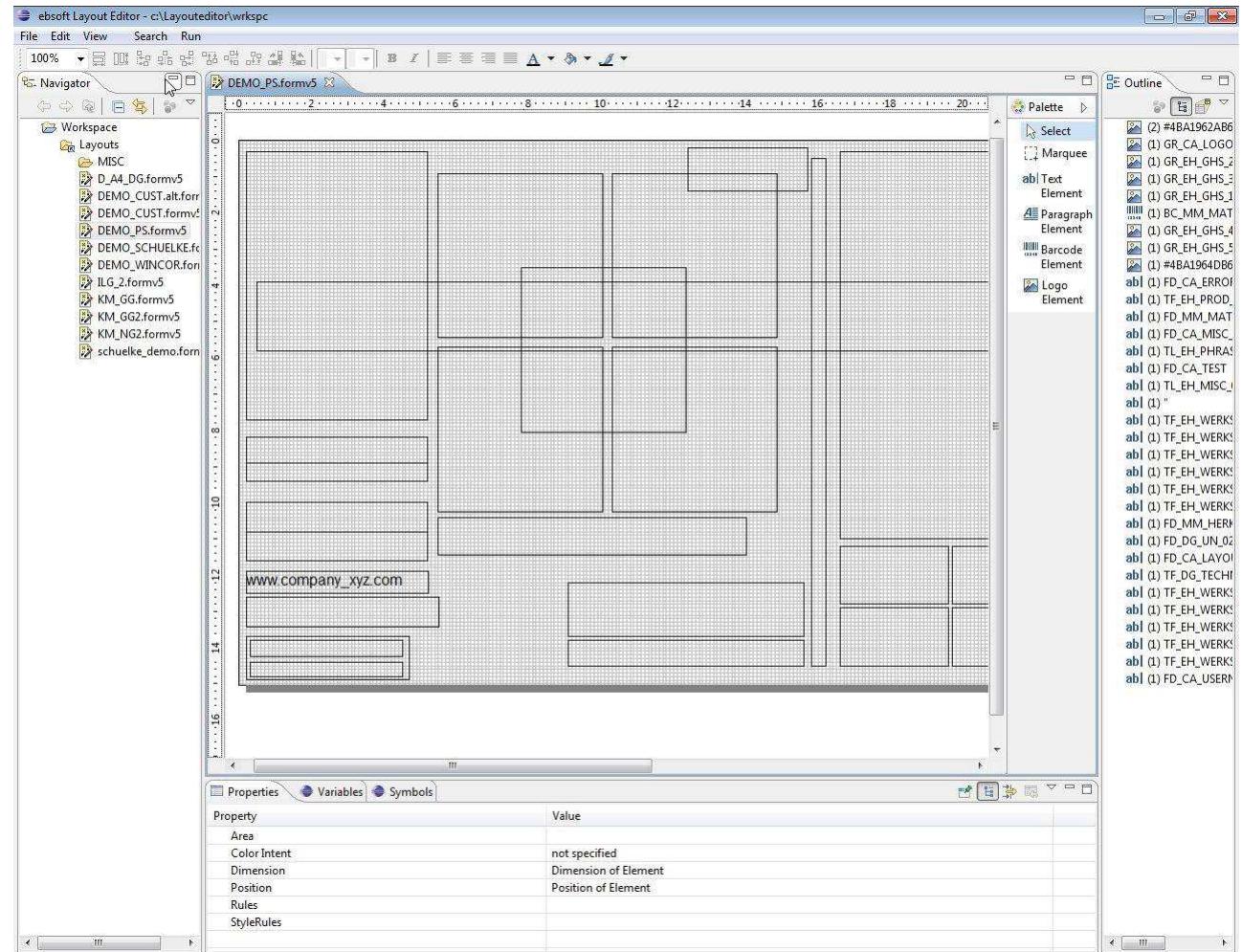
The Layout Editor comes from our partner „EB-Soft",
who continuously enhances and maintains the software.

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Atos Label Print Cockpit (LPC)

Print Initiation

▶ Label Printing can be triggered by
  – LPC user transaction in SAP (customizable)
  – SAP processes,
    started as batch jobs or by user transactions like VL06O (delivery monitor) or LM01 (handheld scanners used in logistics)
  – Customer ABAP programs
  – from outside SAP, e.g. manufacturing systems (MES)

▶ Central printing
All calls are executed by the same function, i.e. printed labels and all other functions (e.g. logging) are independent of the triggering process

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Atos Label Print Cockpit (LPC)

Print Initiation with LPC user transaction

► with label preview, distribution via E-Mail, jumps into SAP transactions

► selection screen and label list highly configurable

The delivery label with product safety information shows the flexibility in design and data access.

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Routing

▶ process starts with the label type and few additional parameters
  - label type corresponds to the principal buttons in user transaction
  - Example: „delivery label"

▶ routing determines
  - main label and additional labels
    - depending on actual data, table-controlled
    - Example: label 1 with delivery and product safety data, as this is a dangerous material; label 2: dangerous goods label for the specific delivery
  - for each label:
    - layout
    - specific formatting requirements beyond layout settings
      Example: material name italic for a specific customer
    - number of copies
    - printer

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Atos Label Print Cockpit (LPC)

Data Access and Data Formatting

▶ **executed for all fields in the printed layouts**

▶ **setup organised by technical data sources**

▶ **data subject to versioning and release considered**

▶ **regular formatting of data (e.g. decimal delimiter)**

▶ **special formatting like Zoom, EAN128**

▶ **layout settings can be conditionally overridden by rules**

LPC data access setup

LPC data formatting setup
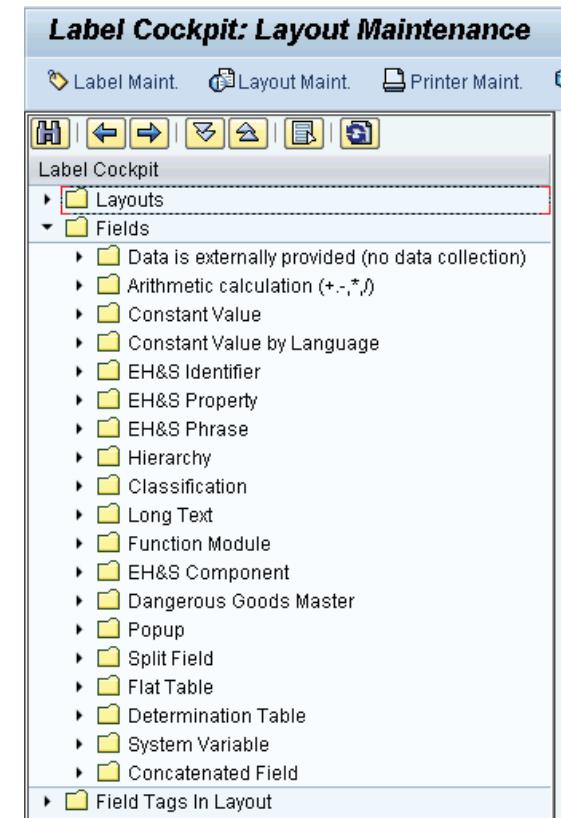
Atos Label Print Cockpit (LPC)

Label Output

▶ the print server combines layout with data and graphics to a spool file and sends it to printer

▶ all printers and output devices (e.g. RFID) with MS Windows-driver supported

▶ print server software optimized for performance (speed) and high volumes; maintenance-free from our partner „EB-Soft"

label dispenser

space optimisation: text flow around graphics
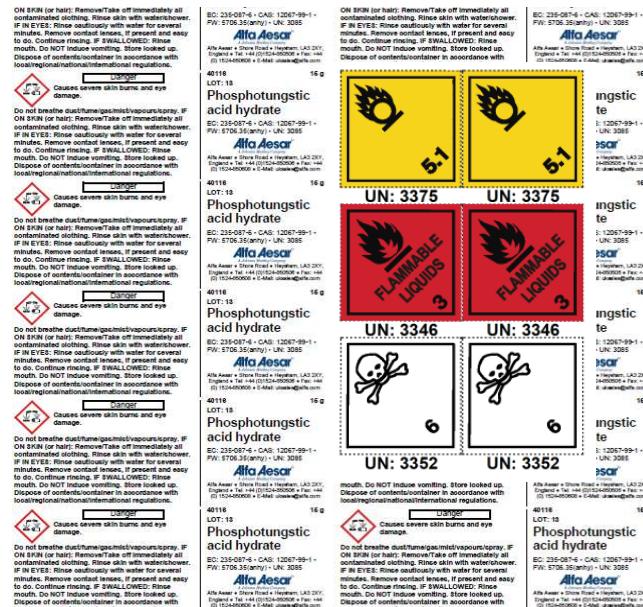
efficient use of printer and paper by good layout design

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Atos Label Print Cockpit (LPC)

Logging

▶ print requests can be fully logged from initiation to printing

▶ printed labels can be logged or saved into document system (e.g. SAP DMS)

▶ search functions and reprint functions for the logs

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Atos Label Print Cockpit (LPC)

Versioning and Release Scenarios

► LPC separates layouts from data

► both are versioned and released independent of each other

► data versioning is activated for each field individually

► combination of released layout and data in the printing process

► result: less objects to be reviewed and released

Layout versioning and release

Data versioning and release

Atos Label Print Cockpit (LPC)

Our Offering

1	**LPC Installation**	
2	**LPC Implementation**	✓ **LPC Prototype**
3	**LPC Maintenance**	
4	**LPC Support**	
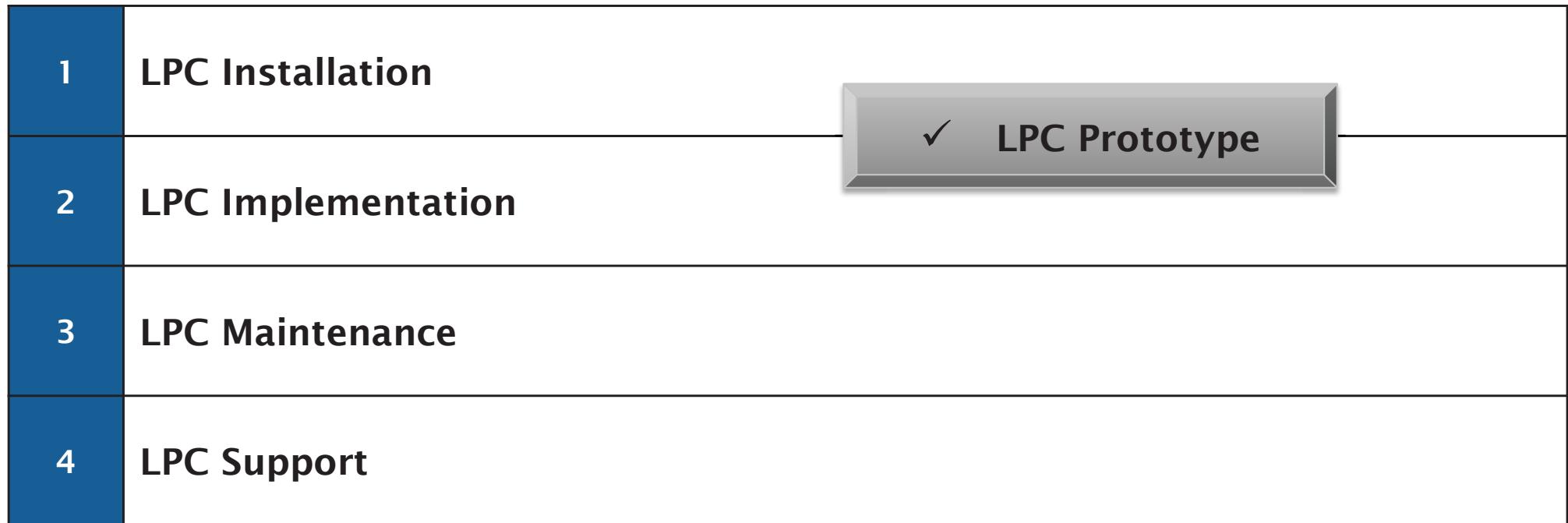
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Atos Label Print Cockpit (LPC)

LPC Installation

▶ Software and documentation

▶ Software installation

   – LPC   ⇨ in customer's SAP system

   – Layout Editor   ⇨ on customer's PC

   – Print Server   ⇨ on customer's server

   Hardware and infrastructure are provided by the customer.

▶ Integrative function test with one printer and a test layout

▶ Licences for EB-Soft software (print server and layout editor)

▶ Fixed price

Hereafter, the system is technically available and ready for customization.
This is usually achieved in less than one calendar week.

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Atos Label Print Cockpit (LPC)

LPC Implementation

▶ Implementation project

▶ Models to choose from:

  – Starter Kit: defined delivery scope and model at fix price

  – Atos Minimal: customer implements, supported by Atos

  – Atos Maximal: Atos implements, supported by customer

▶ Atos Minimal and Atos Maximal follow a 2-stage approach: the detail requirements and project organisation are agreed after an initial workshop. Then, Atos then provides an offer for the agreed deliverables. The borderline between Atos Minimal and Atos Maximal is slidable.

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Atos Label Print Cockpit (LPC)

LPC Implementation: flexible Models

	Starter Kit	Atos Minimal		Atos Maximal
Pricing Model	Fix Price	Time & Material		Time & Material
Project Scope	2 labels 1 printer	labels 1&2 1st printer	additional labels & printers	all labels all printers
Installation at fix price, supported by customer IT. Not part of the implementation project.	AK	AK		AK
Definition der Anforderungen — Printing Transaction	KD, ST	WS		WS
Process Integration	-	WS		WS
Authorisation Concept	-	WS		WS
Routing	KD, ST	WS		WS
Label Languages	KD, ST	WS		WS
Layouts	KD, ST	WS		WS
Data Access	KD, ST	WS		WS
Printers and Drivers	KD	KD		WS
Label dispenser	-	WS		WS
MES Systems / Warehouse Systems	-	WS		WS
LPC Core Enhancement / Add.Functions	-	WS		WS
		Offer after workshop		

AT	Atos activity
AK	Atos activity, supported by customer
WS	as workshop
KA	Customer activity, supported by Atos
KD	Customer activity
ST	functions only as far as configurable in LPC standard
-	not in scope or not applicable

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Atos Label Print Cockpit (LPC)

LPC Implementation: flexible Models

			Starter Kit	Atos Minimal		Atos Maximal
Project Management			AT	KD		AT
Implementierung	Layouting		AT	AT	KA	AT
	Printing TA	Setup	AT	AT	KA	AT
		Code Change	-	KA		AT
	SAP Process Integration		-	KA		AT
	Authorisation Concept		-	AT	KA	AT
	Routing	Setup	AT	AT	KA	AT
		Exit Programming	-	KA		AT
	Data Access	Setup	AT	AT	KA	AT
		Fct.Mod. Plugin	AT	AT	KA	AT
		Exit Programming	-	KA		AT
		from 2nd SAP system (2nd LPC installation)	-	KA		AT
		from non-SAP System	-	KA		KA
	Formatierung	Setup	AT	AT	KA	AT
		Exit Programming	-	KA		AT
	LPC Core Enhancement / Add.Functions		-	AT		AT
	Printer incl. RfID		AT	AT	KA	AT
	Label dispenser		-	KA		AT
	MES Systems / Warehouse Systems		-	KA		AT
	Q&A for additional labels 3 days		KA	-		-

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Atos Label Print Cockpit (LPC)

LPC Implementation: flexible Models

			Starter Kit	Atos Minimal	Atos Maximal
Cut-Over	Documentation	User doc. (User TA)	KA	KA	AT
		Technical doc.	KA	KA	AT
	Training	IT (train the trainer)	AK	AK	AK
		User (train the trainer)	KD	AK	AK
	Test	Test workshop 5 days	-	-	WS
		Test Support 2 days	-	AT	-
		Approval Test	KD	KD	KD
	Sign Off		KD	KD	KD
Go-Live	Preparation (transports…)		KD	-	AT
	Handover to Production		KD	KA	KA
	Hypercare		KD	AT	AT

AT	Atos activity
AK	Atos activity, supported by customer
WS	as workshop
KA	Customer activity, supported by Atos
KD	Customer activity
ST	functions only as far as configurable in LPC standard
-	not in scope or not applicable

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Atos Label Print Cockpit (LPC)

LPC Maintenance

▶ bug fixing and update service for EB-Soft print server, EB-Soft Layout Editor and Atos LPC Core applications (Package /AOL/CA_LABEL)

▶ support by phone and remote access Monday – Friday from 8:30 – 17:00 CET

▶ not contained:

– errors from operation systems, hardware, network and incorrect usage

– adoption to changed business processes or data
→ e.g. changes in SD/WM delivery customizing,
       leading to different data access
→ e.g. changes in EH&S Setup, like another content provider,
       leading to different propertied

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LPC Support

- ▶ in addition to LPC maintenance
- ▶ right-fit Application Management Services in different stages of extension
  - – for continuos operations: service level agreements, e.g. on solution time
  - – for changes: frame agreement or call order
- ▶ delivery from
  - – On-shore (Germany)
  - – Near-shore (Russia, Poland)
  - – Offshore (India)
- ▶ integration into customer's support- and change- processes with the „Harmonized Delivery Process"
- ▶ individual agreement

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LPC Prototype

Challenge the LPC: Proof of Concept
- ► … with one of *your labels*
- ► … with one of *your printers*
- ► … on *your SAP system*
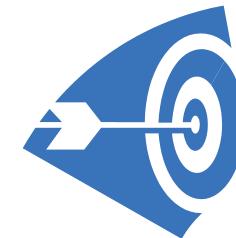
System installation and prototype implementation
- ► in **2 calendar weeks**
- ► no licensing for prototype

Reuse the prototype!
- ► starting point for implementation project
- ► credited against a future project

Atos

Thank You

For more information please contact:
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September 20th, 2014

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