Americas' SAP Users' Group

WEEE: SAP Recycling Administration

Vedant Borse, Director, HCL
Sendil Perumal, IT Architect, Agilent

Session ID: 82764

About the Speakers

Vedant Borse

- Solution Director, HCL
- SAP S/4 Hana Practice Head, SAP Innovator, Author, Trainer and Speaker
- Fun Fact

Sendil Perumal

- IT architect, Agilent
- SCM Solution Design

Agenda

- WEEE Directive for 2018/19 and its impacts
- SAP REA (Recycling Administration)
- Approach to Meeting deadlines

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WEEE Directive

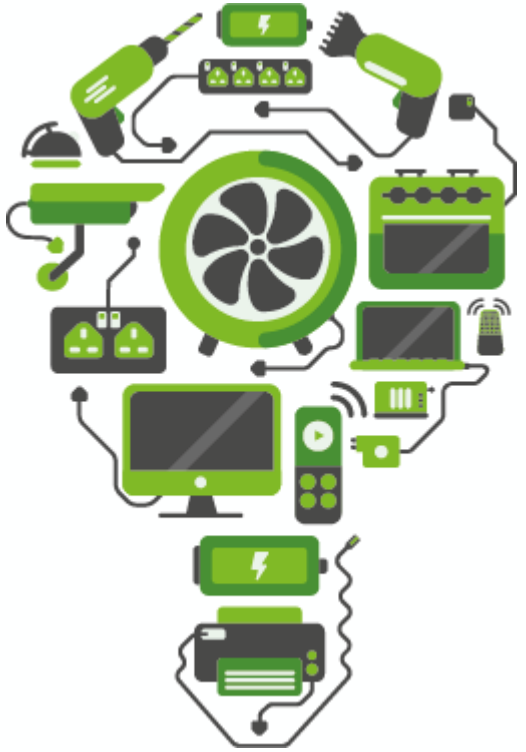
- As of August 2018, or January 2019 (depending on the country), electrical and electronic products that are subject to the WEEE Directive 2012/19/EU, must also be reported in European countries
- Challenges for producers who also sell electrical and electronic equipment in European countries
  - Assigning their products to the correct categories
  - Reporting them to the compliance schemes

WEEE new scope in 2018/19: what consequences?

- From 15 August 2018 the scope previously described by the 10 WEEE categories will be extended to a so-called open scope (Article 2, Para. 1b Directive 2012/19/EU). The **WEEE directive** changes its method of determining the products covered from a closed, defined scope to an '**open scope**'.
- The legislation clearly states that, apart from some exemptions (Article 2, Para. 3 Directive 2012/19/EU), the WEEE Directive shall apply to ALL EEE
- 10 WEEE categories will be replaced by the 6 new categories listed in Annex III WEEE Directive
- Alignment towards new price lists as well as new declaration categories and subcategories

What are the new categories coming into use on August 15th 2018?

1. Heat exchange equipment
2. Screens, monitors, and equipment containing screens having a surface area greater than 100cm2
3. Lamps
4. Large equipment (any external dimension greater than 50 cm)
5. Small equipment (no external dimension greater than 50 cm)
6. Small IT and telecommunications equipment (no external dimension greater than 50 cm)



- Deadlines: Some countries in 2018, some in 2019

Latest Updates

- Commission Implementing Regulation (EU) 2019/290 of 19 February 2019 establishing the format for registration and reporting of producers of electrical and electronic equipment
- Directive:
  - A harmonized data structure and format for the registration and reporting of producers of electrical and electronic equipment (EEE)
  - Should be used by all producers, including producers supplying EEE by means of distance communication or, where appointed, by authorized representatives,

http://data.europa.eu/eli/reg_impl/2019/290/oj

Recycling Regulations Spreading Globally*

- Almost All Markets demand Recycling Compliance

US – Oregon
- Electronics recycling program
- (CED – covered electronics devices)

Effective 2007

US - California:
- Electronic Waste Recycling Act
- The Cell Phone Recycling Act
- The Rechargable Battery Recycling Act

Effective July 2004

US - Maine:
- Electronic Waste Producer Responsibility Act

Effective January 2005

Packaging Sustainability
- WAL*MART Sustainability
- Packaging Scorecard

Effective February 2008

Mexico
- Omnibus 'Waste Law' (End-of-life electric & electronic products)

Canada:
- Waste Diversion Act Ontario
- Environment Quality Act Quebec

Effective 2002/2007

Brazil /Argentina
- Solid Waste Law
- Battery Ban Law

Europe: WEEE 2018/19 Open Scope, Packaging, Batteries (2002/96/EC, 94/62/EC, 2006/66/EC, 2012/19/EU)
- WEEE: transitioned into local legislation of 27 countries

Effective August 2005

Packaging Sustainability
- Tesco Packaging Sustainability
- DHL
- AH (Albert Heijn ..) ..

India
- Environment Protection Act
  eWaste Management and
- Handling Rules

Effective May, 2012

Australia
- Environment Protection Measure on Used Packaging Materials (NEPM)
- National Packaging Convenant
- Establishment of special purpose industry driven organization E-Waste Australia

Japan
- Japanese Containers and Packaging Recycling Law
- Guidelines on Waste Processing and Recycling

China
Regulation for the Management of the Disposal of Waste Electrical and Electronic Products ('China WEEE')

Effective January 2011

South Korea
- Act for Resource Recycling of Electrical/Electronic Products and Automobiles

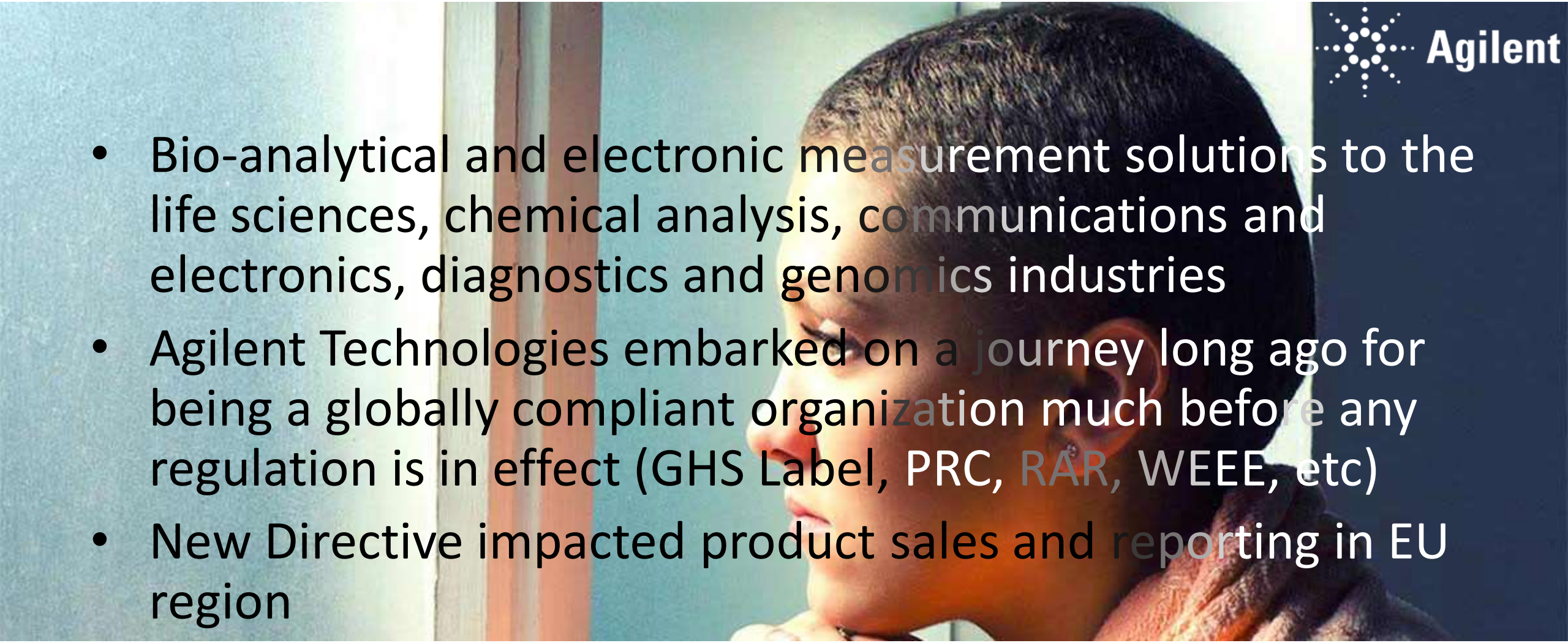
Taiwan
- Restriction of Dry Battery Manufacturing, Import and Distribution

New Zealand
- Container Deposit Legislation (CDL)

*global examples, not an exhaustive list

Agilent Technologies

$4.2 B



- Bio-analytical and electronic measurement solutions to the life sciences, chemical analysis, communications and electronics, diagnostics and genomics industries
- Agilent Technologies embarked on a journey long ago for being a globally compliant organization much before any regulation is in effect (GHS Label, PRC, RAR, WEEE, etc)
- New Directive impacted product sales and reporting in EU region

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HCL Technologies

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- Delivers innovative technology solutions built around Digital, IoT, Cloud, Automation, Cybersecurity, Analytics, Infrastructure Management and Engineering
- Strategic Consulting Partner for Agilent for over a decade

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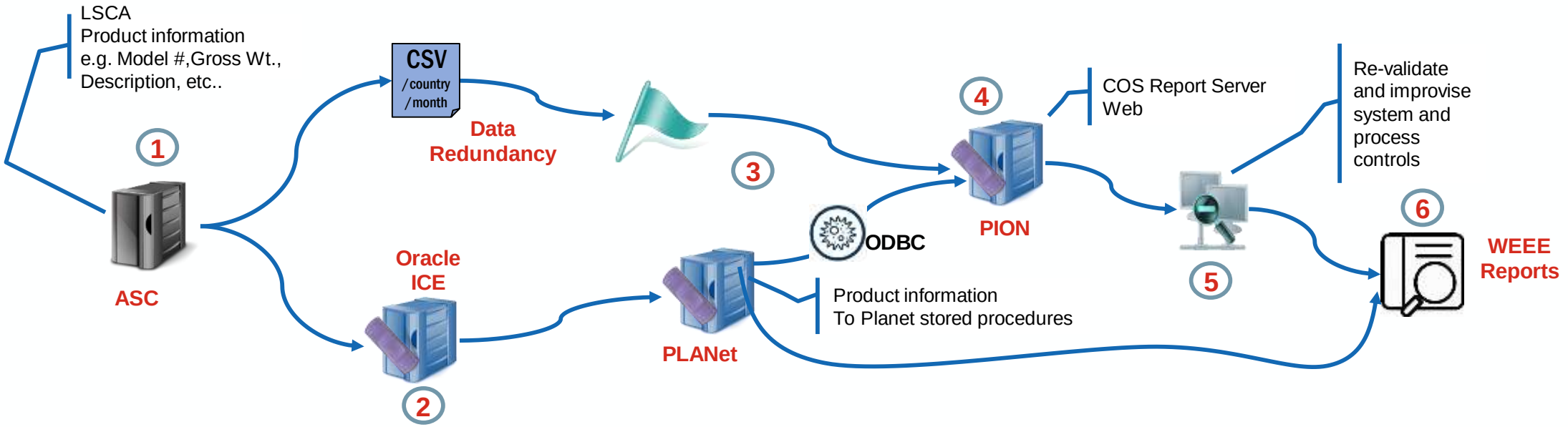
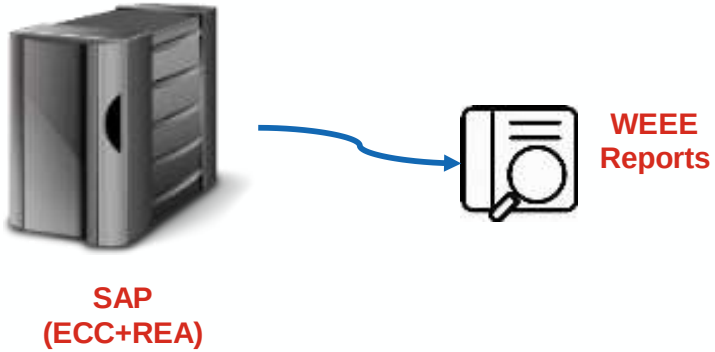
Project Objective

EU Electronic Waste Project

- Enable Agilent to be compliant with the new EU WEEE directive
- Classification of EEE according to WEEE Regulation
- WEEE reporting infrastructure compliant to new reporting format and also old format
- Build Integrated SAP environment to streamlines process and data redundancy across multiple platforms

Integrated Process and Systems

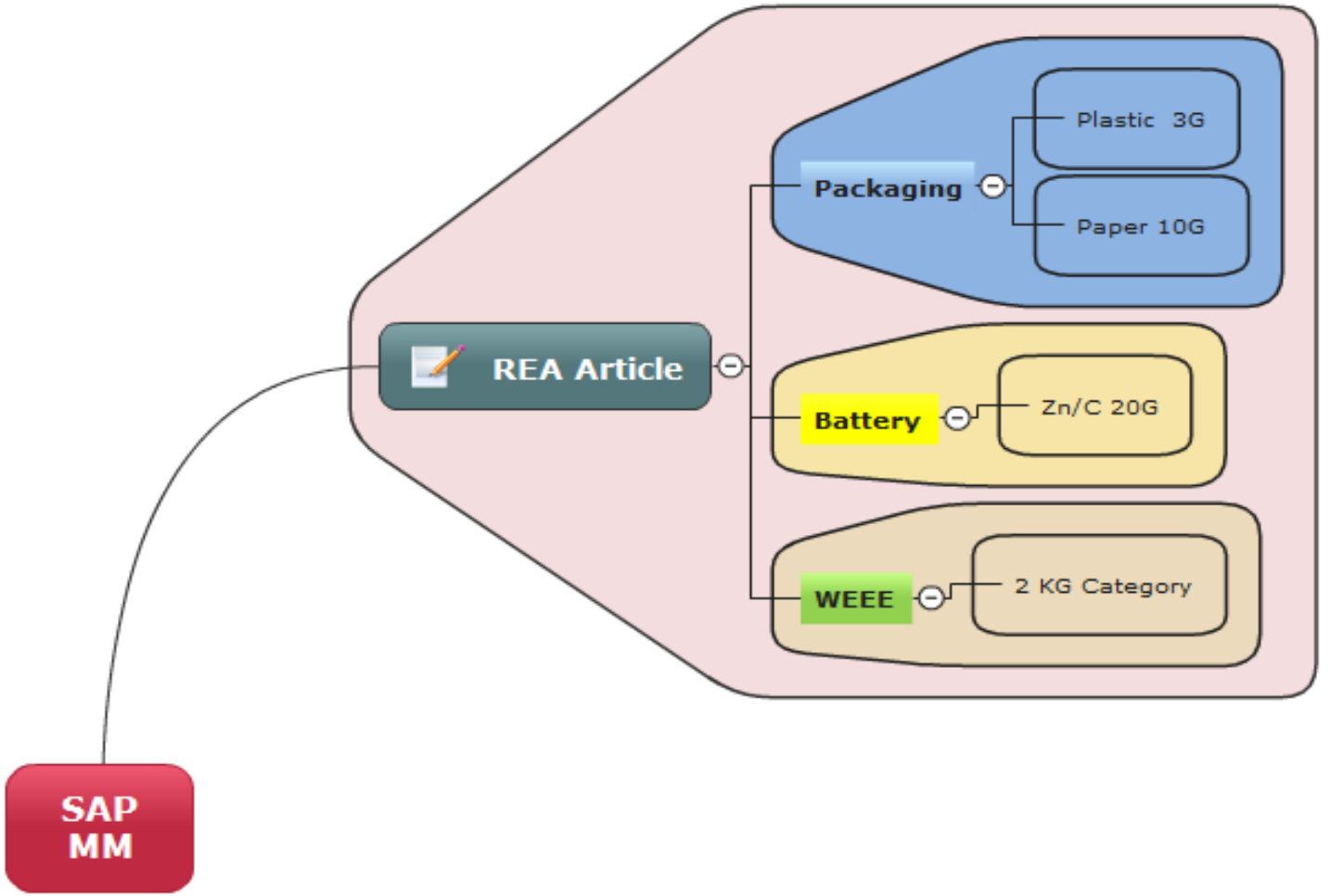




What is REA (Recycling Administration)?

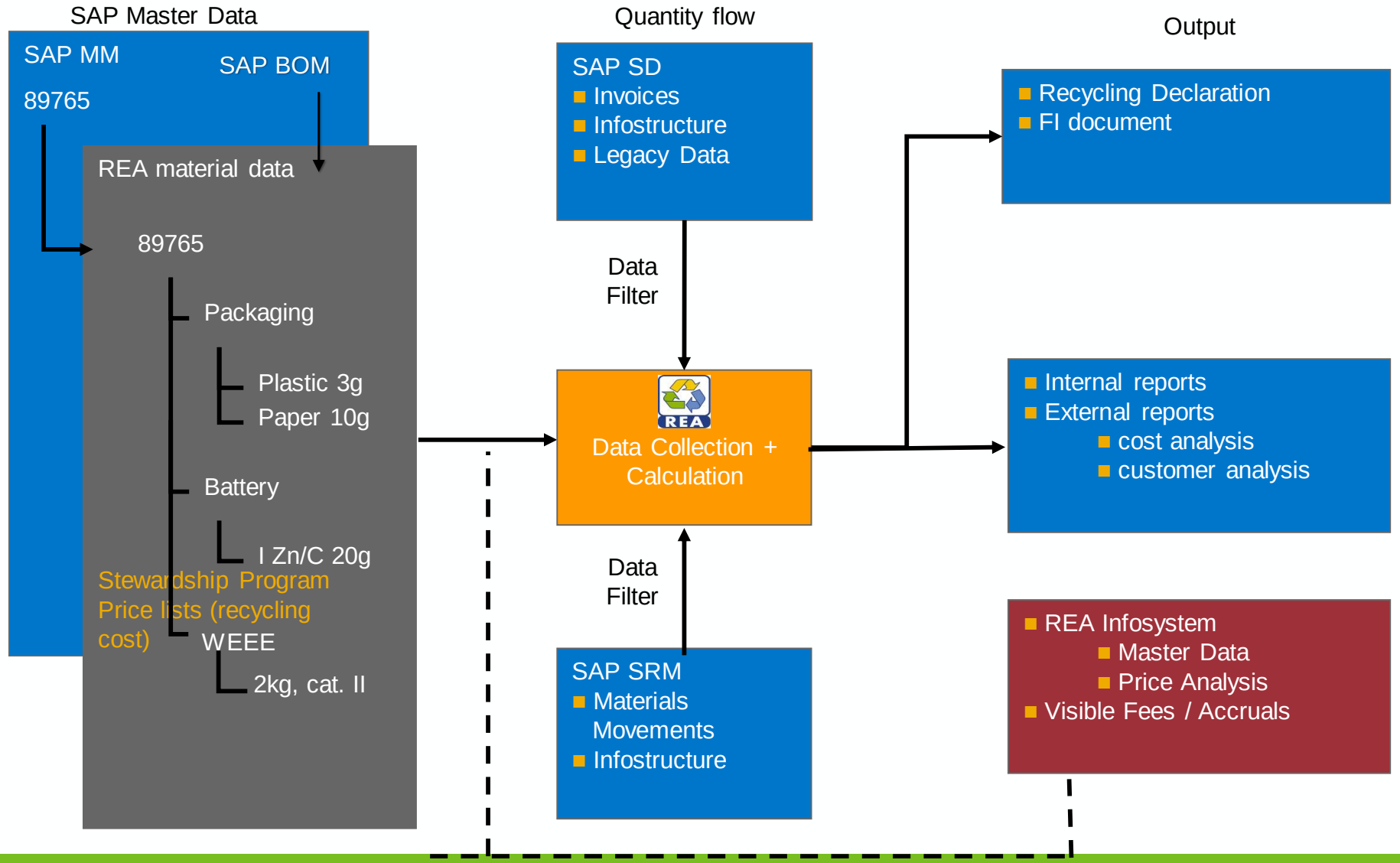
- REA is a scalable software package from SAP
- Enables companies to create and manage a global platform for recycling administration and reporting
- Supports all European directives related to waste electrical and electronic equipment (WEEE), packaging and batteries

Simplified REA Master Data

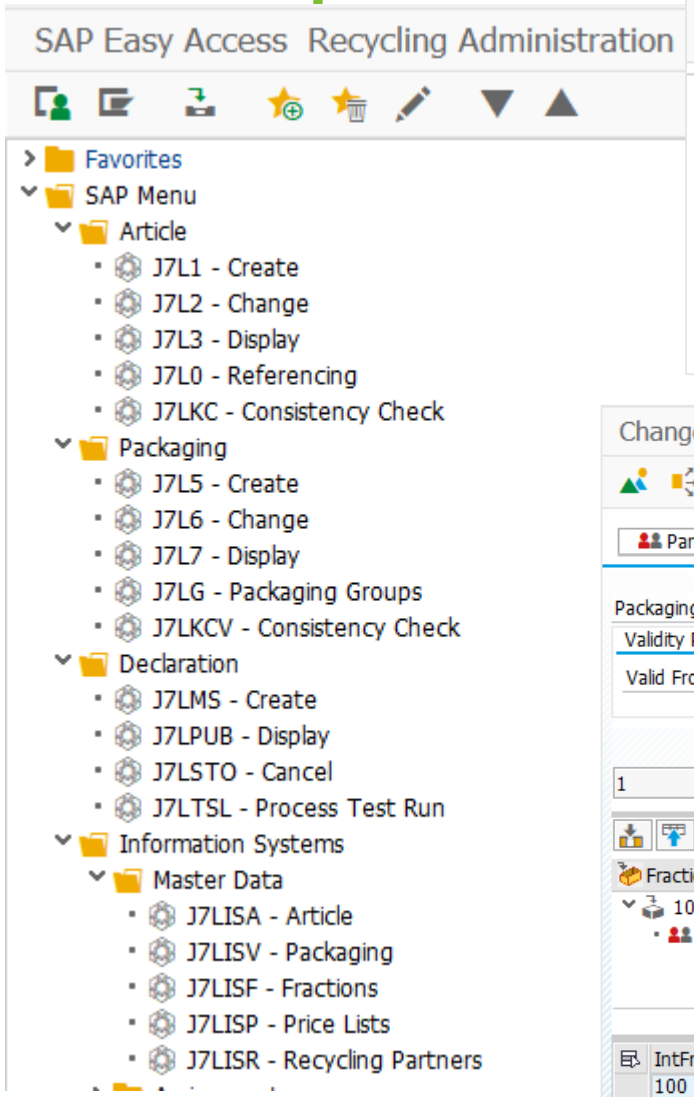


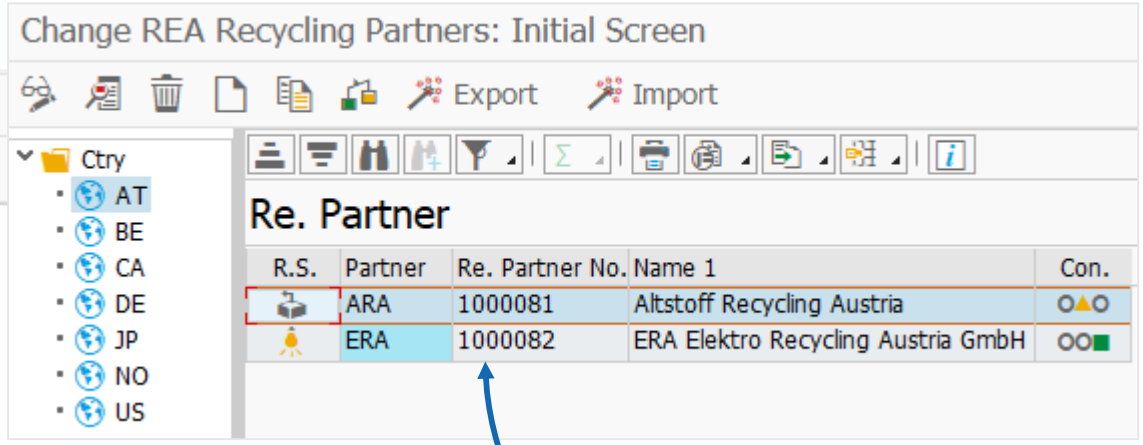
SAP REA leverages CORE SAP ERP functionality

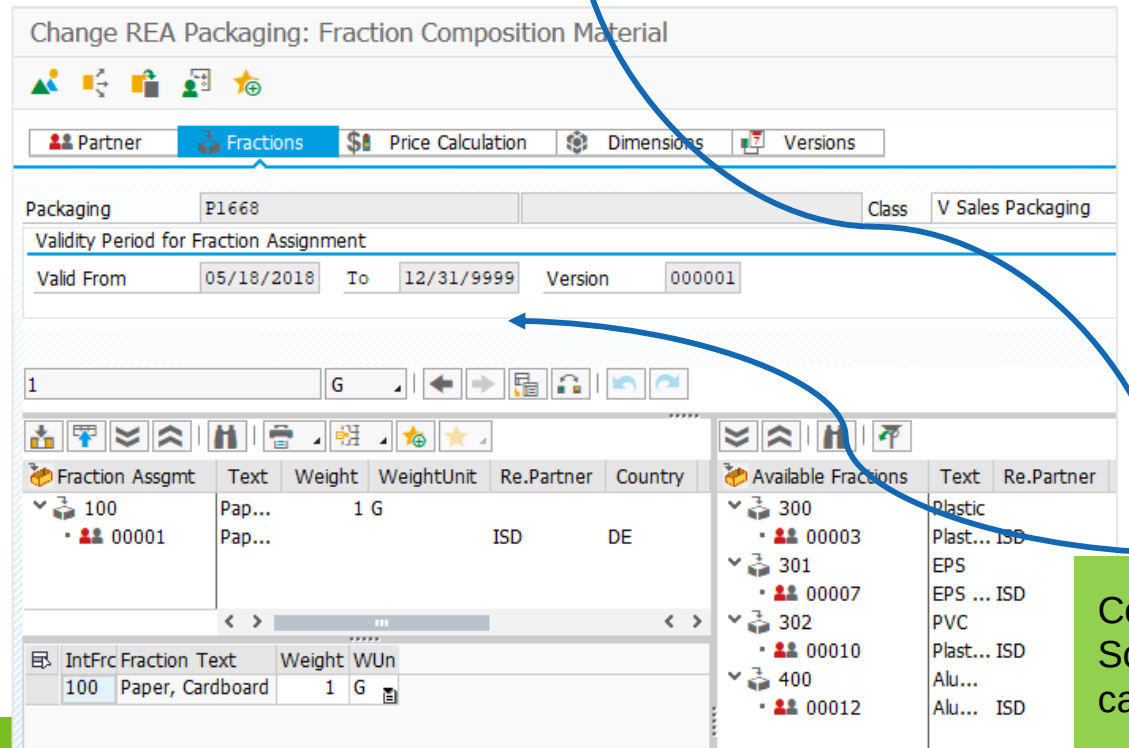
for all Recycling Management Process Steps

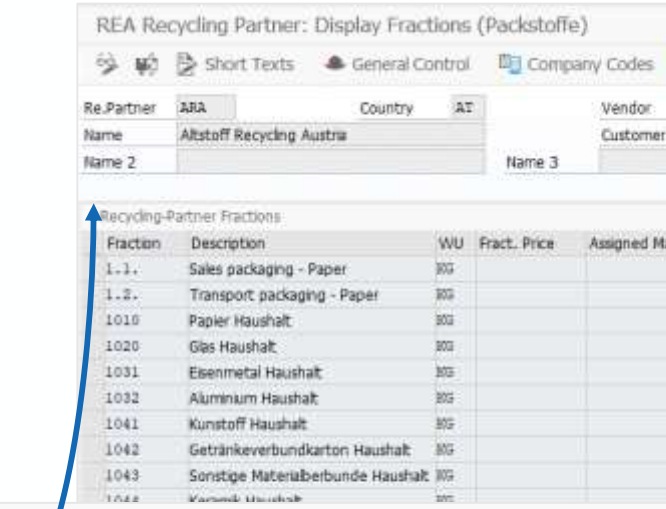


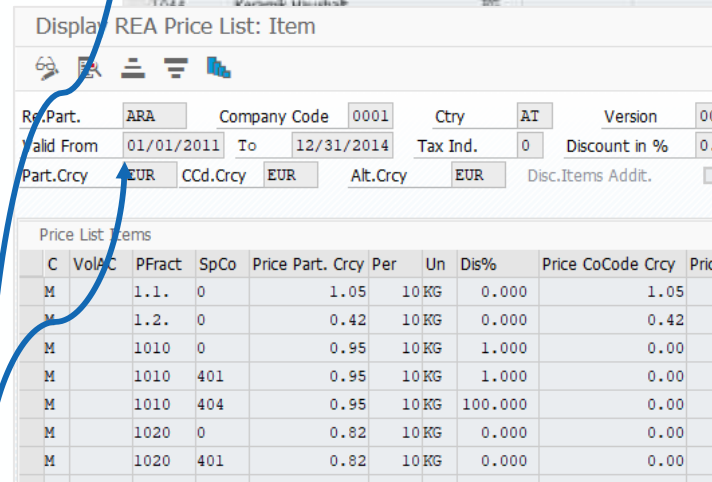
Support for Multi-Materials Recycling Compliance





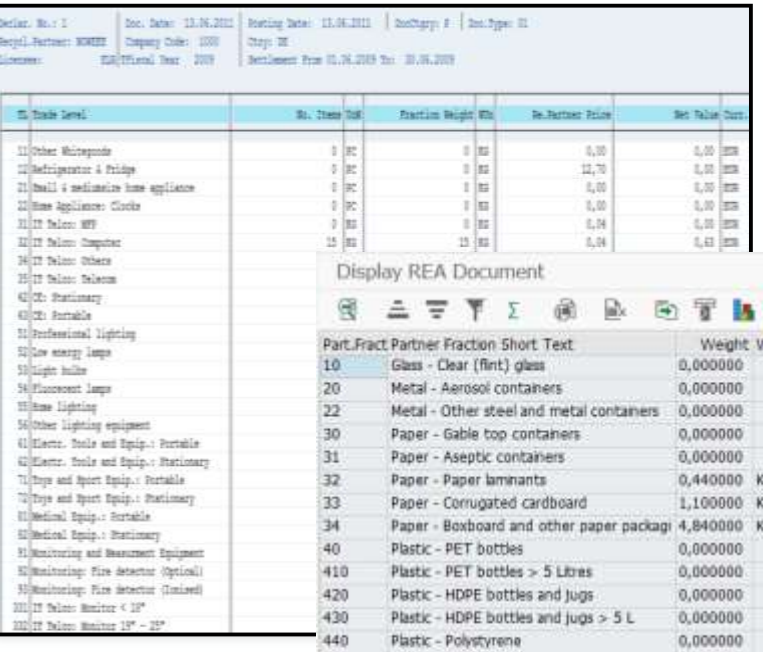


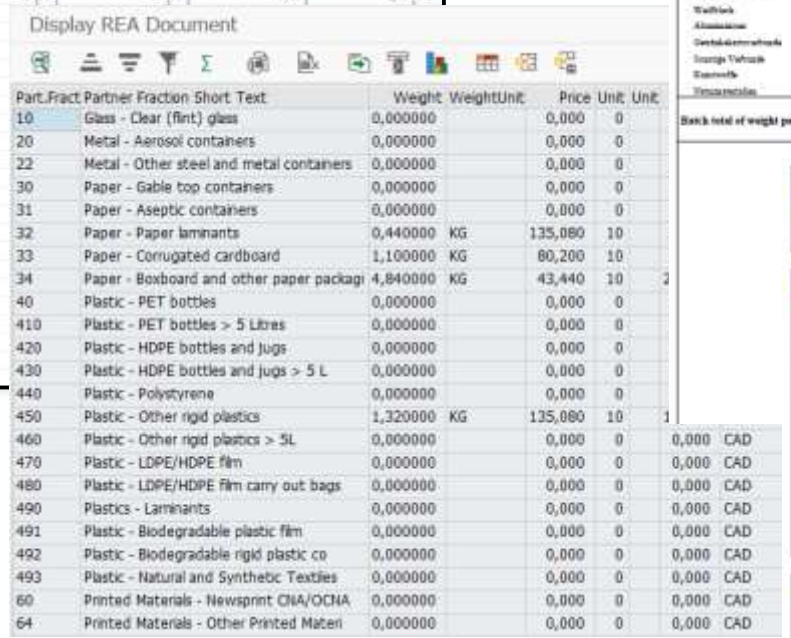




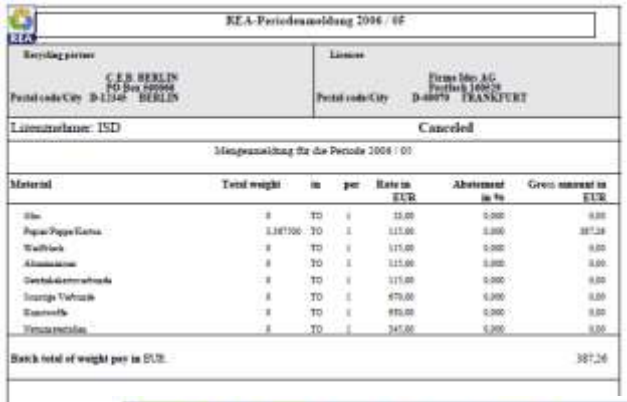
Centrally manage variations of global Recycling Schemes for multi-materials per product category calculate related fees per individual material price

Automated Declarations for multiple Schemes



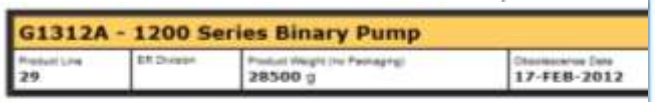


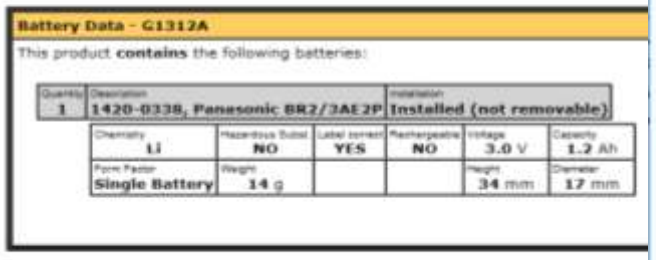
Part.Fract	Partner Fraction Short Text	Weight	WeightUnit	Price	Unit	Unit
10	Glass - Clear (flint) glass	0,000000		0,000	0	
20	Metal - Aerosol containers	0,000000		0,000	0	
22	Metal - Other steel and metal containers	0,000000		0,000	0	
30	Paper - Gable top containers	0,000000		0,000	0	
31	Paper - Aseptic containers	0,000000		0,000	0	
32	Paper - Paper laminants	0,440000	KG	135,080	10	
33	Paper - Corrugated cardboard	1,100000	KG	80,200	10	
34	Paper - Boxboard and other paper packagi	4,840000	KG	43,440	10	
40	Plastic - PET bottles	0,000000		0,000	0	
410	Plastic - PET bottles > 5 Litres	0,000000		0,000	0	
420	Plastic - HDPE bottles and jugs	0,000000		0,000	0	
430	Plastic - HDPE bottles and jugs > 5 L	0,000000		0,000	0	
440	Plastic - Polystyrene	0,000000		0,000	0	
450	Plastic - Other rigid plastics	1,320000	KG	135,080	10	
460	Plastic - Other rigid plastics > 5L	0,000000		0,000	0	0,000 CAD
470	Plastic - LDPE/HDPE film	0,000000		0,000	0	0,000 CAD
480	Plastic - LDPE/HDPE film carry out bags	0,000000		0,000	0	0,000 CAD
490	Plastics - Laminants	0,000000		0,000	0	0,000 CAD
491	Plastic - Biodegradable plastic film	0,000000		0,000	0	0,000 CAD
492	Plastic - Biodegradable rigid plastic co	0,000000		0,000	0	0,000 CAD
493	Plastic - Natural and Synthetic Textiles	0,000000		0,000	0	0,000 CAD
60	Printed Materials - Newsprint CNA/OCNA	0,000000		0,000	0	0,000 CAD
64	Printed Materials - Other Printed Materi	0,000000		0,000	0	0,000 CAD

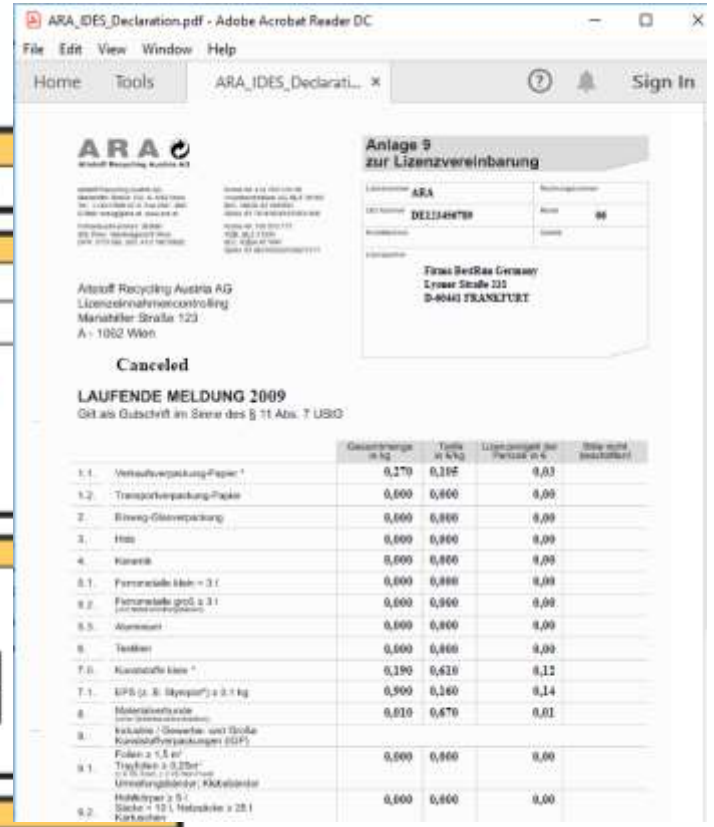


Declarations Austria/Norway

California Electronic Waste Recycling Act CED

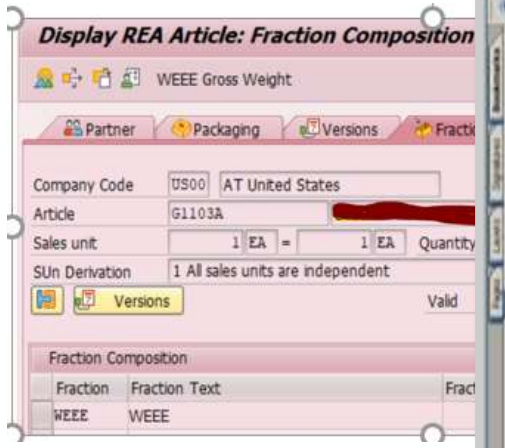


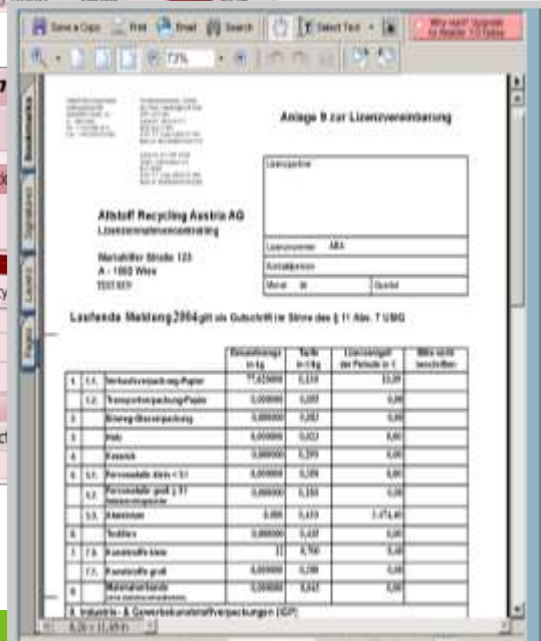




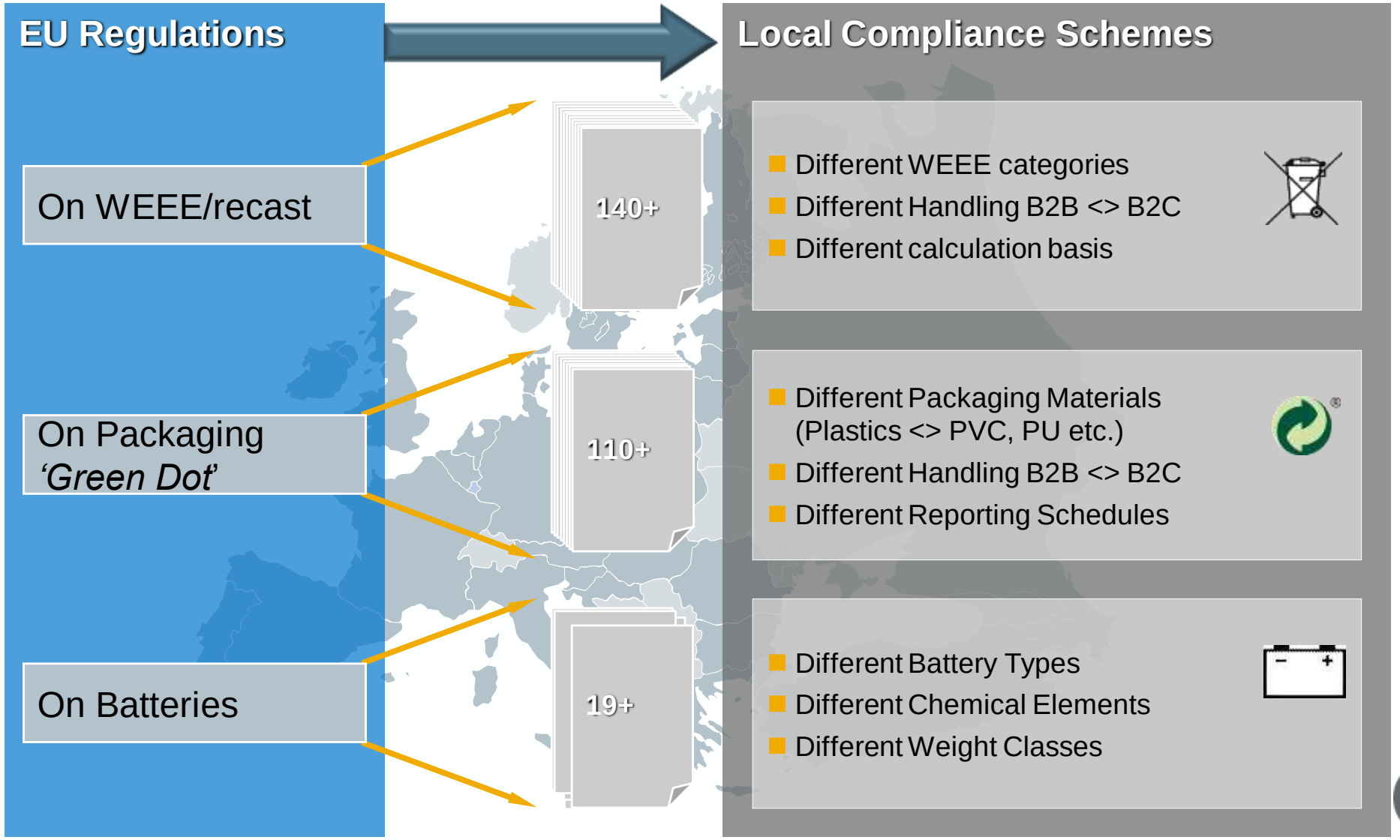
Benefits Achieved with SAP REA

- Single Integrated system to manage WEEE Declarations
- Master data management (fractions, price lists)
- Declaration generation
- Fee calculation & posting
- Extended Producer Responsibility (EPR) Regulations
  - EU Packaging Directive
  - EU Battery Directive
  - EU WEEE, WEEE recast
  - USA, Canada, Japan Packaging
  - China WEEE
- Packaging Scorecards from Supply Chain
  - Sustainable Packaging Scorecard
- flexibility to use REA master data for Weights and Dimensions

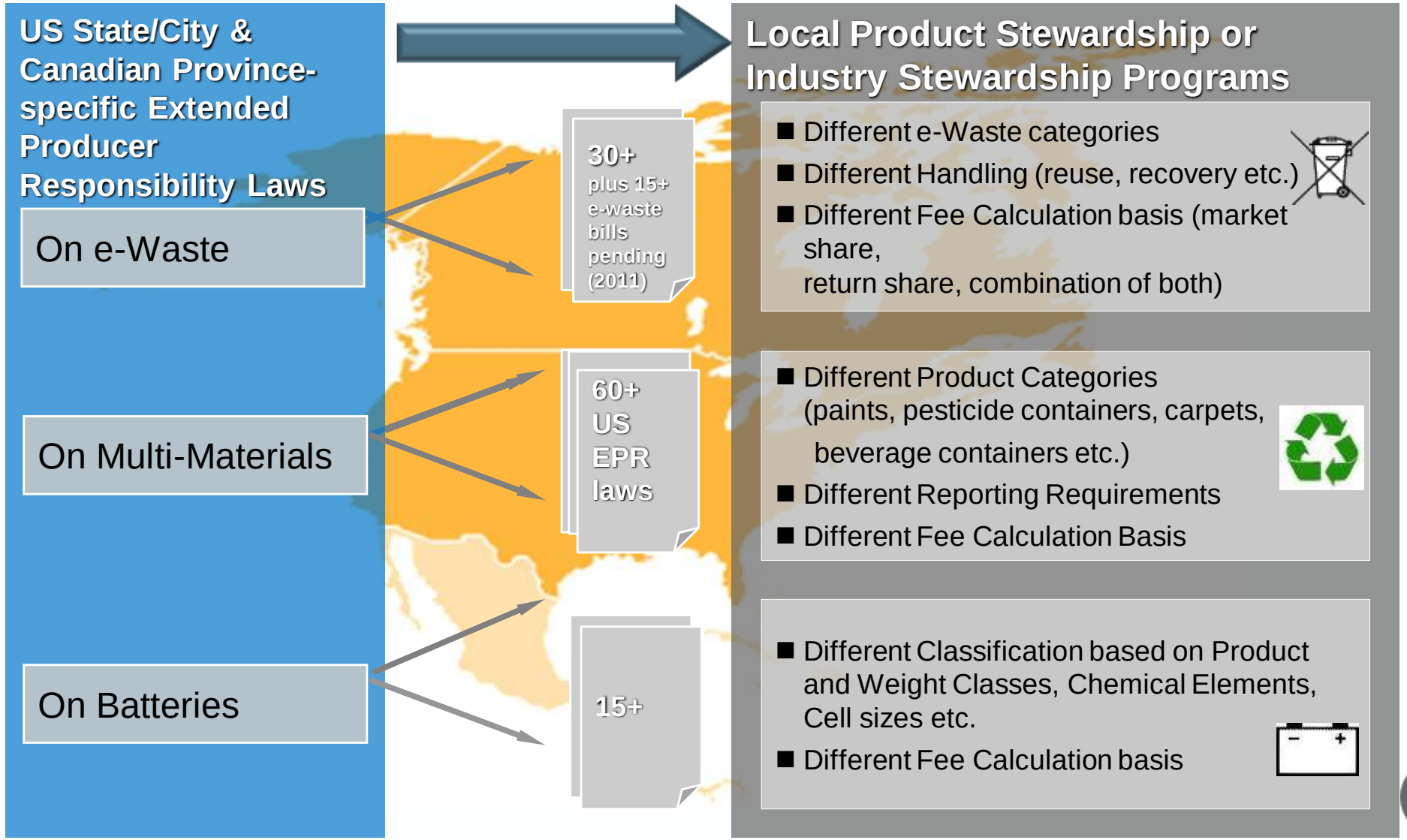




SAP REA addresses all EU Regulation



And other countries including NA



Q&A

THANK YOU FOR PARTICIPATING

HCL Booth #745

Vedant Borse

Solution Director and Practice Head

Digital Supply Chain

HCL AXON

EAS Division – HCL Technologies

15 Exchange Place, Suite 730, Jersey City, NJ 07302

Mob: +1 919 744 6166

www.hcl-axon.com

www.hcltech.com

www.hcl.com

Sendil Perumal

IT Architect, Agilent