Enablon QEHS Performance management
Roadmap presentation
Trends, evolution and new functionalities
STAKES

Standards and laws become increasingly restrictive. Companies are constantly required to align their activities to new QEHS challenges. Enablon QEHS Suite implements a reliable tool for the QEHS data collection, validation, consolidation and reporting required by enforced regulations (e.g. EPA, OSHA, ISO...). A comprehensive QEHS management is seen as an influential asset for your corporate image.

OBJECTIVES

Provide companies with an integrated QEHS Management System with a powerful all-in-one modular approach. Ease monitoring and reporting. Centralize and share QEHS information in a single environment.

IN PRACTICE

A succession of user-friendly modules to cover all QEHS concerns. Possibility of validating and rolling up QEHS data at various managerial levels for reporting analysis, follow-up and generating legal forms.
## Customer Need

**Increased demands on product development**

- Reduce time to market for new products
- Improve new product innovation
- Improve product quality and cost
- Create derivative products for niche segments or specific geographies
- Coordinate across multiple product development locations worldwide (US, Europe, ...)
- Work with globally distributed company locations
- Support customers located worldwide

…*without additional budget or headcount*
2011 Product Strategy

- Ready-to-wear + “Haute couture” Software
  - Modular architecture enhancement
  - Functional bundles through virtual applications
  - Empower Enablon users

- Go on providing more content, expertise and consulting services
  - Build more content in the standard product itself with the help of subject matter experts (e.g. GHG Emissions Calculator)
  - Build a network of partners for projects implementation
    - Expert partners providing content and consulting services
    - Implementation partners configuring Enablon product to clients’ requirements
Enablon Sustainability Platform
Enablon Sustainability Management Platform

The World’s Most Comprehensive Suite For Sustainability, Carbon Management & QEHS Performance

- Corporate Responsibility & Responsible Supply Chain
- Quality, Environment, Health & Safety Performance
- Air, Water, Waste and Chemicals Management
- Regulatory Compliance & Audit Management
- Carbon & Energy Management
- Incident & Risk Prevention
- Product Stewardship
Enablon Sustainability Management Platform

CSR SUITE
- RESPONSIBLE SUPPLY-CHAIN RSC

ECM SUITE
- SUSTAINABILITY / PERF. MANAGEMENT SD
- ENERGY & CARBON MANAGEMENT ECM
- HEALTH MANAGEMENT
- SAFETY MANAGEMENT

QEHS SUITE
- COMPLIANCE MANAGEMENT RCM
- INCIDENT/EVENT MANAGEMENT IMS
- CHEMICAL MANAGEMENT CMS
- PRODUCT STEWARDSHIP PCS

CSR MODULES BUNDLES
- SELF ASSESSMENT
- ASSET MANAGEMENT

SHARED BUSINESS MODULES

APPLICATION SERVER & TECHNICAL MODULES

Enablon QEHS Suite Presentation & Roadmap
Performance Management

- Simplified measurement of company QEHS KPIs
- Carbon accounting and GHG emissions management
- Objective management and action plans to increase QEHS performance
Compliance Management

- Personalized regulatory watch and compliance management
- Audit process management (ISO, OHSAS, …) and self assessment
- Inspections, findings and action plans
Performance & Supply-chain compliance

- Performance Management SD-QEHS
- Energy/Carbon Management GHG-MS
- Responsible Supply-chain RSC
- Product compliance PCS
- Regulatory compliance RCM
- Audits & Evaluations ACS

Shared business module:
- Corporate
- HR Directory
- Equipements
- Maps
- Calendar
- Action plan
- Doc Control

- CSR Supplier assessment
- QEHS Product compliance and data traceability
- Environmental product labelling and impact calculation
Performance & Supply-chain compliance

- Performance Management SD-QEHS
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- Responsible Supply-chain RSC
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Shared business module:
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- Equipements
- Maps
- Calendar
- Action plan
- Doc Control

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Environmental Site management

- Environmental analysis acc. ISO14001
- Environmental input/output streams monitoring and accounting: Waste, Water, Air emission
- Environmental compliance management and Legal form generation
Employee health record management and industrial hygiene
Job hazard analysis and Safety Risk assessment
Chemical management, risk assessment and Compliance (REACH, ROHs, EPA, …)
Incident & crisis Management

- Incident & Accident management from investigation to legal reporting (OSHA, Cerfa,..)
- Estimation of human impacts, business impacts
- Emergency preparation procedure
Enablon Corporate Responsibility Suite

SUSTAINABILITY REPORTING
- Metrics Collection
- Objectives Management
- Advanced Metrics Collection Tools
- Forecasting & Scenario Analysis
- Sustainability Project

ENERGY & CARBON MANAGEMENT
- GHG Emissions Accounting
- Cap & Trade
- Utility Data Management
- Energy Efficiency 
  & Certification
- Internal & External 
  Reporting *

SUSTAINABILITY MODULES
- Stakeholder Management
- Initiatives Management
- Volunteering Management
- Employee Directory
- Best Practice Management

ETHICAL SUPPLY CHAIN
- Audit Management
- Audit 
  Report Generation
- Self-Assessment 
  Campaign
- Finding Tracking 
  & Follow-up

SELF ASSESSMENT MANAGEMENT
- Anti-Bribery Management
- Carbon Calculator

APPLICATION SERVER

SHARED BUSINESS MODULES
- Reports & 
  Dashboards
- Calendar
- Action Plan & Task 
  Management
- Document 
  Control
- Proficiency 
  Management
- Management Of Change

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QEHS Management Modules Bundles

EHS MANAGEMENT MODULES BUNDLES

ENVIRONMENTAL MANAGEMENT
- Environmental Analysis
- Air Quality (AQS)
- Water Quality Compliance
- Waste Management
- Land Management

HEALTH MANAGEMENT
- Occupational Injury and Illness
- Contractor Safety
- Occupational Health
- Exposure Risk Assessment
- Industrial Hygiene

SAFETY MANAGEMENT
- Hazard Inventory (JSA / JHA)
- Safety Risk Assessment
- Ergonomics Analysis
- Behavioral-Based Safety
- Claims Management

PRODUCT STEWARDSHIP
- Supply Chain Communication
- Product Regulatory Compliance
- Product Environ. Profile
- Lifecycle Analysis

CRISIS MANAGEMENT
- Business Impact Analysis
- Business Continuity Plan
- Emergency Response

ASSET MANAGEMENT
- Site & Building Management
- Construction Project
- Equipment Management
- Property Insurance
- Business Directory

Module
New available module
Evolution to come
Forthcoming module

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Core Functional & Technical Modules

**CORE FUNCTIONAL MODULES**

- Organizational Structure
- Business Directories
- Access Rights and Profile Management
- Data Archiving & Purging
- Workflow Management
- Alert Management
- Multi-Application Portal
- Delegated Administration
- Multi-Axis Administration *
- Multilingual Support *
- Multi-Profile Management
- Guest Profile Management
- Web Publication
- PDA Applications *
- Form Factory *
- Report Factory *
- Workflow Factory *
- Alert Factory *

**CORE TECHNICAL MODULES**

- Oracle & MS SQL Server Support
- Advanced Security Tools
- Upgrade Management Tools
- Unicode Support
- Connectors & Web Services
- MS Office Pack ActiveX
- 3-Tiers Architecture
- Data Encryption
- SSO
- LDAP
- ETL Wizintegration
- Offline Excel *

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Embedded Sustainability Content Offering

**CSR CONTENT**
- Global Reporting Initiative
- Global Compact
- NRE

**CARBON / ENERGY CONTENT**
- GHG Emission Factors Libraries *
- ADEME Bilan Carbone
- EPA AP 42 Calculation
- CO2 Benchmark *
- EnTech Energy Data

**HEALTH & SAFETY FORMS**
- Legal Forms *
- OSHA, RIDDOR...
- US FROIs *

**AUDIT PROTOCOLS**
- ENHESA Protocols & Scoring System
- STP Audit Protocols
- AECOM Audit Protocols

**REGULATORY CONTENT**
- ENHESA Regulatory Update
- STP Audit Protocols
- Citation Regulatory Update
- Novallia Regulatory Update

**CHEMICAL DATABASE**
- ChemAdvisor
- Safetec
- Chemwatch

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## Latest released applications & modules

<table>
<thead>
<tr>
<th>Product</th>
<th>Suite 5.0 new modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCM 5.0</td>
<td>New applications incl. 5 new modules</td>
</tr>
<tr>
<td>CMS 5.0</td>
<td>MSDS Management &amp; Generation (GHS/CLP) Substances Management</td>
</tr>
<tr>
<td>Environmental modules</td>
<td></td>
</tr>
<tr>
<td>EHS 4.2 SP1</td>
<td>Air Quality System</td>
</tr>
<tr>
<td>Health &amp; Safety</td>
<td>Individual Employee Exposure Management</td>
</tr>
<tr>
<td>EHS 4.2 SP1</td>
<td></td>
</tr>
<tr>
<td>IMS 4.2 SP1</td>
<td>Claims Management</td>
</tr>
<tr>
<td></td>
<td>Product Quality</td>
</tr>
<tr>
<td>Shared modules</td>
<td>Maps Manager 2.0</td>
</tr>
</tbody>
</table>
## Latest modules evolution

<table>
<thead>
<tr>
<th>Product</th>
<th>Suite 5.0 modules evolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shared modules</td>
<td>Action Plan 5.0 SP1</td>
</tr>
<tr>
<td>IMS 4.2 SP1</td>
<td>Root cause Analysis</td>
</tr>
<tr>
<td></td>
<td>Explorer view &amp; Dashboards</td>
</tr>
<tr>
<td>Environmental modules</td>
<td>Environmental Analysis</td>
</tr>
<tr>
<td>Modules EHS 4.2 SP1</td>
<td>Waste</td>
</tr>
<tr>
<td></td>
<td>Water</td>
</tr>
<tr>
<td>Health &amp; Safety</td>
<td>JSA/JHA</td>
</tr>
<tr>
<td>Modules EHS 4.2 SP1</td>
<td>IH</td>
</tr>
<tr>
<td>ACS 4.2 SP1</td>
<td>Regulatory Audit Protocol</td>
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</tbody>
</table>
# QEHS Suite 6.0 Roadmap & Applications releases

<table>
<thead>
<tr>
<th>Applications</th>
<th>QEHS Suite 6.0*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-QEHS 6.0</td>
<td>September 2010</td>
</tr>
<tr>
<td>GHG-MS 6.0</td>
<td></td>
</tr>
<tr>
<td>ACS 6.0</td>
<td></td>
</tr>
<tr>
<td>IMS 6.0</td>
<td></td>
</tr>
<tr>
<td>RCM 6.0</td>
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</tr>
<tr>
<td>HS 6.0</td>
<td></td>
</tr>
<tr>
<td>EM 6.0</td>
<td></td>
</tr>
<tr>
<td>CMS 6.0</td>
<td></td>
</tr>
<tr>
<td>QEHS Suite 6.0</td>
<td>January 2011</td>
</tr>
</tbody>
</table>

*QEHS Suite 6.0* Officially released!
QEHS Suite

Trends
Introducing sustainability everywhere in the business

Performance

Metrics & KPIs
- Supply Chain & Vendor Management
- Energy Efficiency

Carbon Accounting

Incident Management
- Contractor Safety
- Occ. Injury & Illness

Audit & Inspection
- Air Quality
- Water
- Waste
- Finance
- Regulatory Requirement
- Permit & Obligation
- Compliance Task

Compliance

Product Stewardship
- Chemical Land

Risk
- Exposure Risk
- Emergency Response
- JSA/JHA

Chemical Risk
- Manufacturing
- Production
- Service Management & Delivery

Regulatory Requirement
- Task

Sustainability Project

Enablon QEHS Suite Presentation & Roadmap
Extend system boundaries and functional scope

SUPPLY-CHAIN
LOCAL - OPERATIONAL MANAGEMENT
CORPORATE REPORTING

PEOPLE
SITE
PRODUCT
From Reporting towards operational EHS Management

1. Initial
   - Measure
   - Metrics
   - Reporting

2. Awareness
   - Audit
   - Scoring
   - Analyse

3. Defined
   - Action
   - Correct
   - Prevent

4. Managed
   - Control
   - Adjust
   - Change

5. Excellence
   - Forecast
   - Benchmark
   - Publication

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From reporting towards operational EHS Management

## Evolution of Process Maturity

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ad Hoc</td>
<td>Repeatable</td>
<td>Defined</td>
<td>Managed</td>
<td>Optimizing</td>
</tr>
</tbody>
</table>

1. No uniform process. Success when it happens due to heroic individual action of a handful of people.

2. Processes defined and basic disciplined approach emerges.


4. Continuous improvement methods used.


**Low**

- Ability to guarantee reliability, availability, and service

**High**

- Ability to guarantee reliability, availability, and service
Sustainability that pays!

Towards better monetization of QEHS management
- Being compliant requires investment
- Lowering impacts on Health & Environment generate savings
- Enablon solutions to evaluate ROI and increase added value around QEHS activities

What you already know in Enablon:
- Currency Management
- Budget Management (Action plan, Audit plan)
- Financial loss following accident/crisis
- Business impacts of non compliance
- Carbon Cap & trade

What's coming with 6+ versions:
- **Action plan**: project management (Budget, resource, ROI) 6.0
- Simulation & Forecast module 6.0
- Monetization of global company footprint
- Optimization of logistics and business partners (waste treatment companies, Utilities provider, Laboratories)
Stay connected!

- Integration with your existing IT landscape
  - Data can be automatically retrieved from multiple applications Inside/Outside the company
  - Data entry and exchange simplified!

What you already know in Enablon:
- Integration with CAD, PLM, ERP Systems
- Offline module (ACS, SD)
- Csv-Excel & XML upload/download
- Legal form generation technology
- Web-publication

What's coming with 6+ versions:
- Synchronization with regulatory agency platforms (ECHA, EPA, ...) and/or other content providers
- Smartphone integration: Iphone, Blackberry
- Smart grid data capture
- Bar code and QR code
Collaborative Company Network

- An engine for QEHS activities
  - Connect and engage people from different departments (EHS, Product development, Production, Risk management, Purchase dpt, ...)
  - Daily working tool

- What you already know in Enablon:
  - Centralized action plan management system incl. Project Planning
  - Centralized QEHS calendar
  - User, Company directory and business directory
  - Alerts & Reminders management

- What's coming with 6+ versions:
  - Alerts factory **6.0**
  - Extended **QEHS Calendar** & Meeting Management **6.0**
  - Task assignment and delegation **6.0**
  - **Escalation** procedure and workflow factory **6.0**
  - News, RSS feed > Content Management System
Take control over your solution!

Do it yourself, Now!
- Easy and comprehensive system configuration: Settings, parameters administration
- Data formatting and management, Evolution and extension

What you already know in Enablon:
- Dynamic indicators & questionnaires
- Configurable methodologies (Risk calculation, scoring, etc...)
- Advanced search: Requestor (create/save individual even complex data queries) & full text search

What's coming with 6+ versions:
- **Reports factory**: create, design, format **6.0**
- **Reports library** incl. **Snapshots** **6.0**
- **Builder light**: Forms and lay-out customization **6.0**
  - create any table, add any fields, Build any relationship
  - Configure user help
- **Workflow factory**: customization with a graphical editor **6.0**
- Personalized dashboard and “**Push to Dashboard**” option **6.0**
Simplexcity

Minimize ‘clicks’ and increase productivity
- Continually improve application ergonomics and user-friendliness
- Reduce the user learning curve
- Improve application processing performance

What you already know in Enablon:
- Recognized as comprehensive AND user friendly
- Highly configurable

What's coming with 6+ versions:
- **World map** navigation 6.0
- Dynamic forms with **on-the-fly consistency checks** 6.0
- **Dashboards** as welcome page 6.0
- **Dynamic Pathway** to provide users a step by step work methodology
- Improved Navigation across application
- Simplified **settings administration**
- **Virtual applications**
Integrated offer: All in one Content + Software

Content is key
- Integrated market, legislation and company Information sources
- Content life cycle management

What you already know in Enablon:
- **Standards & Norms**: GRI, NRE, Global Compact, ISO protocols (9001, 14001) and OSHA...
- **Internationally recognized GHG protocols and emissions factors**
- **Typology**: Incident characterization, Product category, ...
- Substance database, Waste catalogue, Agent catalogue
- Legal forms
- Regulatory information: Lists of restrictions, limit types and value (IH, CMS, AQS...)

What's coming with 6+ versions:
- Co-branded module Enablon + Content partner - Packaged offer based on standard solution
  - Regulatory and technical information
  - Impact calculation methods
  - Benchmark data by geography and business sectors (Sustainability KPIs, Carbon, etc...)
- Update & synchronization mechanisms
- Subscription to Subject matter expert reports through the Enablon web portal
- Wizzness
Best practices & subject-matter expertise

- Leverage Enablon’s market leading position, experience and history
  - Take advantage of numerous successful implementations
  - Capitalize on customer feedback: How do others do? What should we do?

- What you already know in Enablon:
  - Action plan and best practice
  - Set of best practice metrics for reporting

- What's coming with 6+ versions:
  - Best practice sustainability projects 6.0
  - Integrated Impact calculation methodologies
  - Pre-defined risk assessment methodologies
Traceability

**Stakes:** Data quality and transparency

**What you already know in Enablon:**
- **Audit trail:** Who, When, What?
- **Versioning** system: Impact assessment, Document, etc...
- Data archive
- Validation workflow
- Auditor accounts

**What's coming with 6+ versions:**
- **Reports Snapshot** 6.0
- **Third party accounts** for certification bodies and external reviewer
- Expanded audit trail
QEHS Suite
Preview – 6.0 features
Builder light: Form Factory
Change charts colors
Report Factory

Available fields from your data source

Dimension of the report template

Data of your report
## Personalized Dashboard

### Tableau de bord publique

<table>
<thead>
<tr>
<th>Campagne</th>
<th>Date de début</th>
<th>Date de fin</th>
<th>Taux de réponse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tableaux</td>
<td>21/05/09</td>
<td>23/05/09</td>
<td>6.7%</td>
</tr>
<tr>
<td>Revue Performance</td>
<td>24/06/09</td>
<td>28/06/09</td>
<td>6.4%</td>
</tr>
<tr>
<td>Validation niveau 4</td>
<td>11/05/09</td>
<td>25/05/09</td>
<td>100%</td>
</tr>
<tr>
<td>Validation niveau 3</td>
<td>11/05/09</td>
<td>25/05/09</td>
<td>100%</td>
</tr>
<tr>
<td>Tableaux</td>
<td>21/05/09</td>
<td>23/05/09</td>
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<td>Validation niveau 3</td>
<td>11/05/09</td>
<td>25/05/09</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Liste des liens
- Périmètre de Reporting - *Visualiser son périmètre de reporting*
- Registre légal
- Base Documentaire
- Site de la GRI
- EURLex - Textes européens

### Liste de nouvelles

- **Jean Dupont reçoit les partenaires sociaux** 17/11/09
  PARIS (AFP) - Jean Dupont a commencé à présenter aux partenaires sociaux sa réforme des retraites, confirmant le passage progressif de la durée de cotisation de 40 ans à 41 ans en 2012 auquel les syndicats sont opposés.

- **Le gouvernement cherche à vendre 120 avions** 04/11/09
  PARIS (AFP) - Le gouvernement cherche à vendre à un pays étranger 120 avions de ligne.

- **Nouvelle version**
  Découvrez les nouveaux tableaux de bord
Workflow Factory

Double-click on a level to get information about it.
Drag a button to create a level. Drop a button on a level to create a connection between two levels.

0.1 Sans suite
1.2 En définition
1.3 Avis Legal
2.1 Validation métier
2.2 Validation CG
3.1 Validation Responsable de Définition
4.1 En cours de signature
4.2 Signé
5.1 En cours
5.2 Résilié
6.1 Cloturé
Contracts (global list)

Add a condition:

<table>
<thead>
<tr>
<th>Field</th>
<th>Comparison</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference</td>
<td>must be equal to</td>
<td></td>
</tr>
</tbody>
</table>

Filter:

- The field Closure/Termination Date of the table Contracts (global list) is not NULL
- The field Closure/Termination reason of the table Contracts (global list) must be equal to Fraud
- The field Closure/Termination reason of the table Contracts (global list) must be equal to Bankruptcy of partner
- The field Closure/Termination reason of the table Contracts (global list) must be equal to Bilateral termination
- The field Closure/Termination reason of the table Contracts (global list) must be equal to Unilateral termination

Link with AND  Link with OR  Unlink  Simplify the filters  Undo action
Set new condition and close  Set "False" and close  Set "True" and close  Close
Alert Factory

Definition

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlertCustomerEN</td>
<td>DescriptionEN</td>
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</tbody>
</table>

Conditions

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Immediate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>Add &amp; Edit</td>
</tr>
<tr>
<td>Input Condition</td>
<td>(The field Date 1 of the table Alert &amp; WF must be '07/04/2010')</td>
</tr>
</tbody>
</table>

Targeted people

- Users: Central Administrator, System Administrator
- Groups: Group1, Group2

Messages

<table>
<thead>
<tr>
<th>Subject</th>
<th>Object</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Paragraph Font Family Font Size</td>
</tr>
</tbody>
</table>

Configuration

<table>
<thead>
<tr>
<th>Status</th>
<th>Disabled</th>
</tr>
</thead>
</table>

Alerts conditions

Targeted people

Personalized text
Coming soon... PDA & Smartphone applications
Thank you for your attention!