

PSCI Environment Sub-Team

RIKKE GADE CHRISTENSEN
HEAD OF SUSTAINABLE PROCUREMENT
LEO PHARMA

ZELIA KRANICH
SUSTAINABLE SOURCING ASSOCIATE DIRECTOR
MERCK & CO., INC., (MERCK SHARP & DOHME
OUTSIDE THE UNITED STATES AND CANADA)

AGENDA

Introduction to the Environment Sub Team

About the sub team

PSCI Principles on the Environment

Workstreams

Maturity Model

Supplier environmental training



Speaker Bio

Rikke Gade Christensen

Head of Sustainable Procurement, LEO Pharma

- Rikke has been the Head of Sustainable Procurement at LEO Pharma for the last 4 years. She joined LEO Pharma 6 years ago to formalise processes in relation to supplier sustainability and is currently Member of the Climate task force there. This year Rikke started supporting the PSCI Environment sub-team as a co-lead, mainly for the data collection workstreams.



Speaker Bio

Zelia Kranich

Sustainable Sourcing Associate Director, Merck & Co., Inc., (Merck Sharp & Dohme outside the United States and Canada)

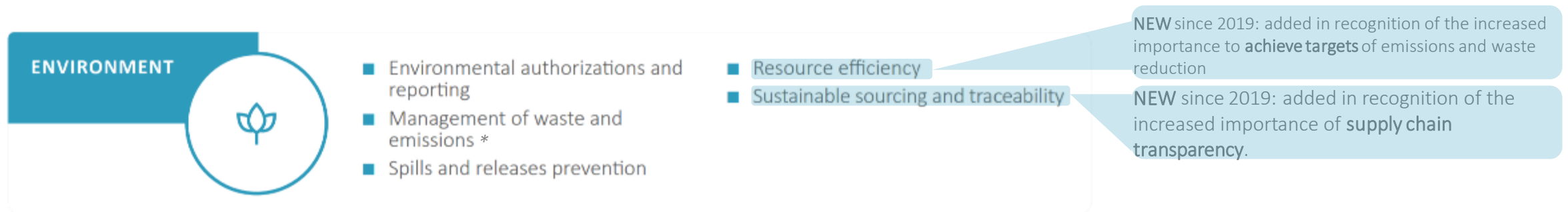
- Zelia is the Sustainable Sourcing Associate Director at Merck & Co., Inc, where she manages supplier environmental sustainability engagement and the procurement process globally. Zelia has over 25 years' experience in the Environmental field, including managing Estee Lauder and Pitney Bowes Environmental Compliance and Sustainability programs globally. Together with Rikke, she leads the PSCI Environment sub-team, particularly around supplier capacity building and training.



About the sub-team

89 members from **39** PSCI member companies

Responsibilities of the sub-team



**Includes "managing the release of Pharmaceuticals into the Environment"*

Update of PSCI Principles

Updated version effective 01 January 2020

Previous version

Environment

Suppliers shall operate in an environmentally responsible and efficient manner to minimize adverse impacts on the environment. Suppliers are encouraged to conserve natural resources, to avoid the use of hazardous materials where possible and to engage in activities that reuse and recycle. The environmental elements include:

1. Environmental Authorizations

Suppliers shall comply with all applicable environmental regulations. All required environmental permits, licenses, information registrations and restrictions shall be obtained and their operational and reporting requirements followed.

2. Waste and Emissions

Suppliers shall have systems in place to ensure the safe handling, movement, storage, recycling, reuse, or management of waste, air emissions and wastewater discharges. Any waste, wastewater or emissions with the potential to adversely impact human or environmental health shall be appropriately managed, controlled and treated prior to release into the environment.

3. Spills and Releases

Suppliers shall have systems in place to prevent and mitigate accidental spills and releases to the environment.

Environment

Suppliers shall operate in an environmentally responsible and efficient manner to minimize adverse impacts on the environment. Suppliers are encouraged to conserve natural resources, to avoid the use of hazardous materials where possible and to engage in activities that reuse and recycle. The Environmental elements include:

1. ENVIRONMENTAL AUTHORIZATIONS AND REPORTING

Suppliers shall comply with all applicable environmental regulations. All required environmental permits, licenses, information registrations and restrictions shall be obtained, and their operational and reporting requirements followed.

2. WASTE AND EMISSIONS

Suppliers shall have systems in place to ensure the safe handling, movement, storage, disposal, recycling, reuse, or management of waste, air emissions and wastewater discharges. Any waste, wastewater or emissions with the potential to adversely impact human or environmental health shall be appropriately managed, controlled and treated prior to release into the environment. This includes managing releases of active pharmaceuticals into the environment (PIE).

3. SPILLS AND RELEASES

Suppliers shall have systems in place to prevent and mitigate accidental spills and releases to the environment and adverse impacts on the local community.

4. RESOURCE USE

Suppliers shall take measures to improve efficiency and reduce the consumption of resources.

5. SUSTAINABLE SOURCING AND TRACEABILITY

Suppliers shall carry out due diligence on the source of critical raw materials to promote legal and sustainable sourcing.

The Principles on the Environment



Environmental authorizations and reporting

- Complying with applicable **environmental regulations** (permits, licenses, registrations...)
- **Operational and reporting requirements** followed



Management of waste and emissions

- **Systems in place** for safe handling, movement, storage, disposal, recycling, reuse or management of waste/emissions
- **Proper management** of waste, air emissions and wastewater discharges with potential adverse effects to humans or environment.



Spills and releases prevention

- **Systems in place to prevent and mitigate** accidental spills and releases to the environment and adverse impacts on local communities.



Resource efficiency

- **Improving efficiency** and **reducing the consumption** of resources.



Sustainable sourcing and traceability

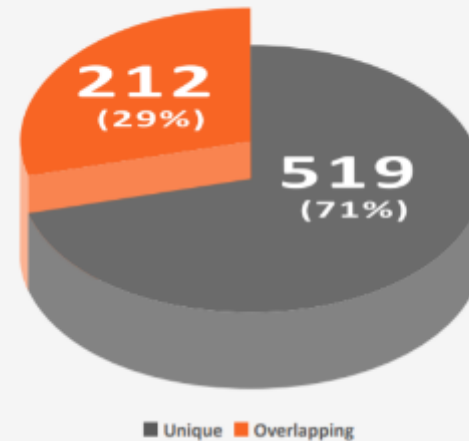
- **Due diligence** on the **source** of critical raw materials to promote legal and sustainable sourcing.

We work in two tracks

Environmental sustainability survey

- Supplier survey
 - Establish programme
 - Manage impacts
 - Greenhouse Gas
 - Waste
 - Water
 - Reduce emissions
 - Apportion emissions
- Benefits for suppliers
- Benefits for PSCI members

SUPPLIERS SHARING SUSTAINABILITY DATA 2018



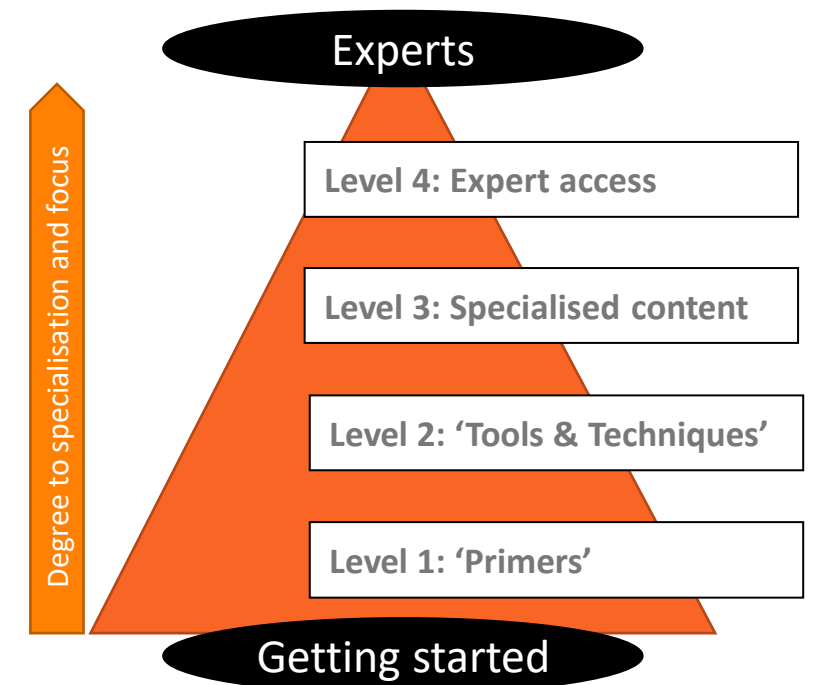
■ Unique ■ Overlapping

SUPPLIER SUSTAINABILITY DATA CAPABILITIES Based on Ecodesk data research



Training

- 10 categories of specialised areas of knowledge
- 4 levels
- 10 modules level 1 on The Link



Supplier Environmental Training

	Level 1: Foundational 'primers' <i>Downloadable guide for suppliers</i>	Level 2: Tools & techniques <i>Online videos and links</i>	Level 3: Specialised content <i>'Live' webinars with external input</i>
The PSCI Principles on Environment	<ul style="list-style-type: none"> What are The Principles? What are the expectations? Auditing and compliance 	<ul style="list-style-type: none"> Preparing for audit against The Principles Case study exemplars 	<ul style="list-style-type: none"> Customer expectations – beyond The Principles
Environmental Management	<ul style="list-style-type: none"> Writing Environmental policy Basic of an EMS Measuring performance 	<ul style="list-style-type: none"> Standards and certification Setting goals and targets 	<ul style="list-style-type: none"> Developing Science Based Targets
Compliance and Prevention	<ul style="list-style-type: none"> Understanding legislation & responsibilities Safe operating procedures Managing a spill or release 	<ul style="list-style-type: none"> What happens when it goes wrong? Best practice leak or spill control 	<ul style="list-style-type: none"> Real time monitoring and citizen science
Climate change	<ul style="list-style-type: none"> What is Climate Change? Sources of Greenhouse Gases (GHG) The basics of measurement 	<ul style="list-style-type: none"> Calculating your carbon footprint What is scope 3? 	<ul style="list-style-type: none"> Developing a carbon strategy
Energy efficiency	<ul style="list-style-type: none"> Managing energy Changing behaviour Areas for efficiency improvement 	<ul style="list-style-type: none"> Factory improvements Renewable energy opportunities 	<ul style="list-style-type: none"> Renewable energy opportunities
Green logistics	<ul style="list-style-type: none"> What are green logistics Impacts of distribution Business travel 	<ul style="list-style-type: none"> Road vs shipping vs air transport New technology (i.e., electric vehicles) 	<ul style="list-style-type: none"> Principles of EV100
Packaging	<ul style="list-style-type: none"> Types of packaging Understanding impacts Plastics 	<ul style="list-style-type: none"> Recycling opportunities Rightsizing and optimisation 	<ul style="list-style-type: none"> Eliminating plastics
Raw materials	<ul style="list-style-type: none"> Raw material sourcing Key issues and materials Customer expectations 	<ul style="list-style-type: none"> The important material standards Understanding raw material traceability 	<ul style="list-style-type: none"> Conflict minerals
Water	<ul style="list-style-type: none"> Water management Water quality Using less water 	<ul style="list-style-type: none"> Understanding your water risks Measuring water scarcity 	<ul style="list-style-type: none"> Green chemistry and ZDHC
Waste	<ul style="list-style-type: none"> Waste hierarchy The basics of waste management Handling hazardous waste 	<ul style="list-style-type: none"> Writing waste management procedures Opportunities for reuse or recycling 	<ul style="list-style-type: none"> Zero waste to landfill
PiE & AMR	<ul style="list-style-type: none"> Importance of managing API releases Developing company standards & PSCI expectations on PiE/AMR Manufacturing API discharge limits 	<ul style="list-style-type: none"> Risk assessment techniques for PiE/AMR Techniques for reducing API losses Liquid/solid waste releases & zero liquid discharge Wastewater treatment (WWT) options 	<ul style="list-style-type: none"> WWT plant operation & maintenance Confirming API releases and/or WWTP effectiveness with analysis Compliance reviews & preparing for PiE/AMR audit

Level 4 (Expert access) will be agreed on a case by case basis as discussions and content are likely to be very specific.

Accessing the resources



ABOUT US WHAT WE DO NEWS RESOURCES EVENTS CONTACT

Email

Password [Forgotten Password?](#)

LOGIN

For suppliers who already have registered

ACCESS OUR LEGACY DOCUMENT LIBRARY AT [BOX.NET](#).

SUPPLIERS

Join our online supplier community for news, events or to share assessments of your site.

NEW SUPPLIER REGISTRATION

For suppliers who have not registered

APPLY FOR MEMBERSHIP

Apply to join the PSCI as a member.

APPLY FOR MEMBERSHIP

Accessing the resources

The screenshot shows the PSCI website interface. At the top right, there is a user profile icon and a 'LOGOUT' button. The PSCI logo is on the left, with the tagline 'Building responsible supply chains'. The main navigation menu includes 'NEWS', 'RESOURCES', 'EVENTS', 'MY SITES', and 'CONTACT'. An orange callout box with an arrow points to the 'RESOURCES' link. Below the navigation is a banner for a survey: 'WE WANT YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS' with a 'VIEW SURVEY' button. The 'NEWS' section features a search bar and filters for 'SORT BY DATE', 'ALL POSTS', and 'ALL TOPICS'. A news item is displayed: 'ANNOUNCING: PSCI PRINCIPLES AVAILABLE IN CHINESE, JAPANESE AND GERMAN'. The 'AUDIT PLATFORM' section includes a table of audits and a 'My sites' link. The 'UPCOMING EVENTS' section features a banner for an 'ETHICS WEBINAR - ANTI-BRIBERY AND CORRUPTION & GDPR'.

Access the resources

NEWS RESOURCES EVENTS MY SITES CONTACT

WE WANT YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS
We encourage all suppliers to participate, to help the PSCI understand the impact it has on suppliers. [VIEW SURVEY](#)

NEWS ?

Search

▼ SORT BY DATE ▼ ALL POSTS ▼ ALL TOPICS ▼

Valentina Okolo published this bulletin on 7 August

ANNOUNCING: PSCI PRINCIPLES AVAILABLE IN CHINESE, JAPANESE AND GERMAN

We are pleased to announce that the PSCI Principles In Chinese, Japanese and German are now live on the Link.

To view the Principles, visit them in our Resources library.

AUDIT PLATFORM ?

Share audits or assessments of your sites with PSCI members.

Name	👤	Last Audit ?	Last SAQ ?	🔔
[REDACTED]	0	20 Nov 2016 Full Audit	None	⚠️

[My sites →](#)

UPCOMING EVENTS ?

Read more about or register your interest for our events

ETHICS WEBINAR - ANTI-BRIBERY AND CORRUPTION & GDPR
27 AUG 2020 08:00 - 09:00 GMT-04:00

[All events →](#)

Accessing the resources

The screenshot shows the PSCI website's resources page. At the top left is the PSCI logo with the tagline "Building responsible supply chains". The top right navigation menu includes "NEWS", "RESOURCES", "EVENTS", "MY SITES", and "CONTACT". The main content area has a search bar and filter buttons for "ALL TOPICS", "ALL CATEGORIES", "ALL TYPES", and "ALL AUDIENCES". Two orange callout boxes with arrows point to the "ALL CATEGORIES" and "ALL TOPICS" filters, labeled "Select 'Environment' topic" and "Select 'Training' category" respectively. Below the filters, a resource card is displayed for a webinar on combustible dust hazards, published by Blake Zheng on 7 July. The card includes a "WEBINAR" tag and a "MORE INFO..." button. On the right side, a "KEY RESOURCES" sidebar lists three items: "Organisational Information THE PSCI PRINCIPLES", "Document AUDIT GUIDANCE FOR PSCI AUDITS", and "Organisational Information Video VIDEO INTRODUCTION TO THE PSCI".

Accessing the resources

The screenshot displays the PSCI (Pharmaceutical Supply Chain Initiative) website. At the top, the PSCI logo is accompanied by the tagline "Building responsible supply chains" and a banner that reads "YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS" with a subtext "Invite your suppliers to participate, to help the PSCI understand the impact it has on supplier". Below this is a "NEWS" section with a search bar and a filter menu. The filter menu includes options for "SORT BY DATE", "RESOURCES", "ENVIRONMENT", "ALL SUBTOPICS", "TRAINING", and "ALL RESOURCES", along with a "CLEAR FILTERS" button. A news item is shown, published by Alejandro Fiocco 20 minutes ago, titled "CLIMATE CHANGE: PSCI SUPPLIER ENVIRONMENTAL TRAINING - PRIMER SERIES". The article is categorized under "TRAINING" and includes a sub-heading "What is Climate Change?".

PSCI PHARMACEUTICAL SUPPLY CHAIN INITIATIVE
Building responsible supply chains

YOUR VIEWS! ASSESSING PSCI'S IMPACT FOR SUPPLIERS
Invite your suppliers to participate, to help the PSCI understand the impact it has on supplier

NEWS ?

Search

SORT BY DATE RESOURCES ENVIRONMENT ALL SUBTOPICS
TRAINING ALL RESOURCES CLEAR FILTERS

Alejandro Fiocco published this resource 20 minutes ago

CLIMATE CHANGE: PSCI SUPPLIER ENVIRONMENTAL TRAINING - PRIMER SERIES

TRAINING

In support of the PSCI Principles, this training guide will help you to reduce your environmental impact and improve your performance. This primer focuses on the basics of Climate Change and will explain:

What is Climate Change?

PSCI Common Framework

Starting out	Developing	Implementing	Leading
<ul style="list-style-type: none"> • Compliance with law • Necessary policies in place • Minimum standards are being met 	<p>PLUS</p> <ul style="list-style-type: none"> • Audits / baselines / risk assessments complete • Key risks and highest impacts identified • Measurement and recording systems in place • Management responsibility has been allocated • Targets and objectives set 	<p>PLUS</p> <ul style="list-style-type: none"> • Processes in place with clear responsibilities for key staff • Employees are aware and trained as appropriate • Targets generally being achieved • Improvement projects • External verification • External partnerships being developed • Public reporting or other transparency • Risks are adequately managed 	<p>PLUS</p> <ul style="list-style-type: none"> • Embedded in culture • External recognition / awards • Taking an advocacy stance • Approach includes whole value chain • External partnerships across industry • Supporting partners / customers to improve. • Sustainability drives innovation • Sustainability leads to differentiation and commercial advantage

Environmental Maturity Model – Example Draft

- Several groups considering Maturity Models and more likely in future
- Each Model will have different technical content depending on the subject.
- We see the need for a common framework to ensure alignment and consistency

PSCI Principles	Starting out	Developing	Implementing	Leading
Environmental authorisations and reporting				
Waste and emissions				
Spills and releases				
Resource use				
Sustainable sourcing and traceability				

CONTACT



pscinitiative.org



info@pscinitiative.org



Annabel Buchan:
+44 (0) 7794 557524



[PSCI](https://www.linkedin.com/company/psci)



[@PSCInitiative](https://twitter.com/PSCInitiative)

For more information about the PSCI please contact:

PSCI Secretariat
Carnstone Partners Ltd
Durham House
Durham House Street
London
WC2N 6HG

info@pscinitiative.org

+44 (0) 7794 557 524

About the Secretariat

Carnstone Partners Ltd is an independent management consultancy, specialising in corporate responsibility and sustainability, with a long track record in running industry groups.

