Open Footprint™ Forum
Global Event
June 23-24, 2021
Welcome & Introduction

Johan Krebbers
IT CTO
Shell

Heidi Karlsson
Director,
Open Footprint™ Forum
The Open Group
What is the Open Footprint Forum?

What are our Objectives?

What will be delivered?
Commitment to HSSE
Participants in meetings, on calls, sharing/posting any documentation via e-mail and collaboration tools shall **NOT** discuss or exchange the information related to the following:

- Confidential or proprietary information of any organization
- Prices of products or services of any organization
- Purchasing plans for particular goods or services
- Specific merger/divestment plans, development plans, inventories, and costs of any organization (unless this information is publicly available)
Open Footprint™ Forum (OFP) Forum
Global Event
<table>
<thead>
<tr>
<th>Timing (CET)</th>
<th>Subject</th>
<th>Presenter</th>
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</table>
| 14:00 | Welcome & Introduction:  
• What is Open Footprint?  
• What are our objectives?  
• What will be delivered? | Johan Krebbers (Shell)  
Heidi Karlsson (The Open Group) |
| 14:15 | Open Footprint:  
• Detailed contents of MVP1 and MVP2.  
• OFP data platform.  
• OFP User Interface / Reporting  
• OFP Reference Architecture | Sammy Lakshmanan (ERM) |
| 14:45 | Open Footprint Data Platform:  
• Alignment with external developments  
• Data Platform developments  
• GHG Scope 1 / Scope 2 / Scope 3 support  
• How do we maintain flexibility  
• Plans for the future: 0 – 9 months  
• Data definitions developments | Gommaar van Strien (Shell) |
| 15:30 | Break |
| 15:45 | WBCSD:  
• What are the objectives?  
• What can be the links between WBCSD and OFP? | Anna Stanley (WBCSD) |
| 16:15 | GHG & Reporting:  
• What are the expectations in this space?  
• What is the direction?  
• What can we do in OFP to assist?  
• What links do we have? | Sumouli Bhattacharjee (ERM) |
| 16:45 | OFP Reference Architecture:  
• Description of the architecture  
• Data entry  
• Reporting | Sourabh Roy (Infosys) |
| 17:15 | Break |
| 17:30 | OFP Strategy:  
• What is our (high level) direction?  
• Links to other systems / entities / institutions  
• Main roadmap steps | Johan Krebbers (Shell) |
| 18:00 | Developments in the market of GHG and related activities | Luca Venturini (Accenture) |
| 18:45 | Closure |
# Programme 24/06/21

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<tr>
<th>Timing (CET)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Recap day one:</td>
<td>Sammy Lakshmanan (ERM)</td>
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<td></td>
<td>• Main messages from the first day</td>
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<td>• Programme for the second day</td>
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<td>14:15</td>
<td>Developments in the market of GHG and related activities</td>
<td>Jacques Buith (Deloitte)</td>
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<td>14:45</td>
<td>IBM presentation about their OFP plans</td>
<td>Sonia van Ballaert (IBM)</td>
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<td>15:05</td>
<td>AWS presentation about their OFP plans</td>
<td>Liz Dennett (AWS)</td>
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<td>Merlyn Gregory (AWS)</td>
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<td>15:25</td>
<td>Break</td>
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<td>15:40</td>
<td>Open Footprint:</td>
<td>William Fox (Data Gumbo)</td>
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<tr>
<td></td>
<td>• OFP Calculation engines</td>
<td>Javier Espinoza (Data Gumbo)</td>
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<td></td>
<td>• Options to be made available</td>
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<td>16:10</td>
<td>Open Footprint Forum:</td>
<td>Heidi Karlsson (The Open Group)</td>
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<td>• Opportunities for new and existing members</td>
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<td>16:25</td>
<td>Open Footprint demo of the Reference Implementation:</td>
<td>Sammy Lakshmanan (ERM)</td>
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<td>• Initial preview of platform</td>
<td>Bhupinder Singh Chawla (Infosys)</td>
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<td>• Case study example</td>
<td>Geert-Willem Haasjes (IBM)</td>
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<td>• Future considerations</td>
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<td>17:15</td>
<td>Break</td>
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<td>17:30</td>
<td>OFP and what is expected by various industries:</td>
<td>Ravindra Balija (Wipro)</td>
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<td>1. Summary of the Industries we have looked at</td>
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<td>2. Learnings from these various industries</td>
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<td>18:00</td>
<td>Open Footprint:</td>
<td>Johan Krebbers (Shell)</td>
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<td>• How to get it used in the various industries?</td>
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<td>• Examples of that: Input from others.</td>
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<td>18:30</td>
<td>Follow up actions &amp; Q&amp;A</td>
<td>Sammy Lakshmanan (ERM)</td>
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<td>19:00</td>
<td>Closure</td>
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General Information

• At the end of each session there will be 5 minutes for Q&A; Please write your questions in the Q&A box.

• All sessions will be recorded and to be made available afterwards.
About The Open Group
Agenda

• Introduction to The Open Group
• Background
• What is the Open Footprint Forum
• Benefits of the Open Footprint Initiative
• Current Members
• Active Projects
• Useful Links
The Open Group is……

Currently 800+ Memberships signed in 50 Countries
Staff and local partners in 12 Countries

Australia
Austria
Belgium
Botswana
Brazil
Brunei
Canada
China
Colombia
Croatia
Czech Republic
Denmark
Egypt
Finland
France
Germany
Hong Kong
India
Ireland
Israel
Italy
Japan
Kenya
Latvia
Luxembourg
Malaysia
Mexico
Netherlands
New Zealand
Nigeria
Norway
Peru
Philippines
Poland
Portugal
Romania
Saudi Arabia
Singapore
Slovakia
South Africa
Spain
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
Uruguay
UK
USA
Evolution of Ecosystems
Background

- Most of us will have heard about **Green House Gasses** (GHG) such as CO2, Carbon, etc.
- Many **sustainability** efforts are under way on how we can **reduce these GHG emissions**
- To assist with these efforts, it is important that we are able to keep track of these emissions in a consistent way
- However, from the various bodies (Global Reporting Initiative (GRI) / Carbon Disclosure Project (CDP) / International Integrated Reporting Council (IIRC), World Economic Forum (WEF), etc.) there are no clear standards on what data to store
- Therefore, at this moment it is a challenge to keep track of these emissions in a consistent way across Companies & Industries. Everybody is using their own ways of working, but that means that it is **virtually impossible to add together emissions levels of multiple companies**
To prevent wasting more time and effort, we have started the Open Footprint™ Forum with the aim to create an Industry standard (and Open Source based) data platform where emissions data of each company can be saved using these same industry standards.

It is crucial we work across Industries.

Therefore, the deliverables need to be all necessary standards to support an Open Footprint Data Platform and an Open Source based Architecture & Reference Implementation.

By doing so, it becomes possible for emission data from different companies to be added to the data platform.

We have selected The Open Group since we needed a (legal) framework under which all companies can work together in a transparent fashion and to have the Open Footprint standards become freely available in the market.
What is the Open Footprint Forum?

The aim of the Open Footprint Forum is to:

- Develop open, vendor-neutral standards enabling consistent measurement of environmental Footprint data
- Create an Open Source data platform facilitating environmental Footprint data capture, management, sharing, and analysis
- Facilitate easier sharing of Footprint data within supply chains
- Help enable the development of an open and robust ecosystem of software and services for environmental Footprint data capture, management, and reporting
- Solution relevant for organizations pan-industry (and not specific to Oil and Gas organizations)

The initial deliverables of the Forum will be:

- An open, vendor-neutral standard including detailed standard data structures and API’s to store, process, and exchange energy Footprint data
- An Open Source data platform and reference implementation of the standard
(June 2021) committed organizations in the Open Footprint™ Forum
For Questions and Contact Information

The Open Group Open Footprint Forum Director
Heidi Karlsson:  h.karlsson@opengroup.org

The Open Group Membership Director
Mike Hickey:  m.hickey@opengroup.org
Reliable tracking of environment footprint data is a global concern for corporations, governments, and consumers.

Open Footprint Forum
opengroup.org/openFootprint-forum

Open Footprint Current Members List
opengroup.org/openFootprint-forum/current-members

Introduction to the Open Footprint Forum (On-demand)
publications.opengroup.org/webinars/d272

LinkedIn: The Open Group
Open Footprint Forum
linkedin.com/groups/12472327