



Operation Clean Sweep: Practical Guidelines

The European Plastic Pipes and Fittings Association

1 July 2020

Introduction to Microsoft Teams Live Event

Operation Clean Sweep: Practical Guidelines

1 July 2020

Sergejs Maslakovs


OCS Project Leader, TEPPFA

Attendee instructions



Demo Live Event

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Operation Clean Sweep: Practical Guidelines

The European Plastic Pipes and Fittings Association

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Live event Q&A

Featured My questions

Ask a moderator

Questions won't be visible to everyone until a moderator approves them

John Smith

Where can I find more information on the OCS?

☐ Post as anonymous

About the moderator



Sergejs Maslakovs

- **Education:** MSc. International Business Economics & Management, PgDip Law
- **Communications Manager and OCS Project Leader at TEPPFA**
- **Contact:** sergejs.maslakovs@teppfa.eu
- **Tel.:** +32 2 736 24 06



Agenda & Speakers

Sergejs Maslakovs

OCS Project Leader, TEPPFA

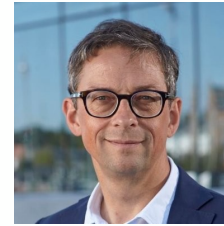
Operation Clean Sweep: Practical Guidelines

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Agenda & Speakers

- **Welcome & Introduction**

Peter Sejersen, *Technical Manager: TEPPFA*



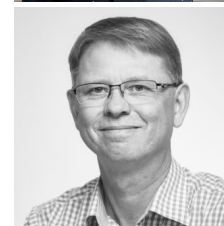
- **Internal site audit & useful tools**

Anders Kildegaard Knudsen, *Environmental Consultant: Plastindustrien*



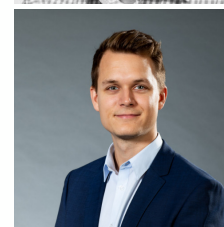
- **Practical implementation of the OCS**

Lars Baungaard, *Quality Assurance Manager: Wavin*



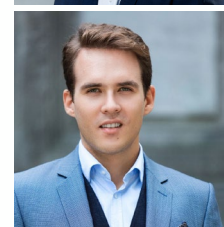
- **Legislative initiatives from the European Commission**

Jérémy Fouriau, *Environmental Affairs Manager: PlasticsEurope*



- **Questions, Answers & Conclusions**

Sergejs Maslakovs, *OCS Project Leader: TEPPFA*



Introduction to Operation Clean Sweep

Operation Clean Sweep: Practical Guidelines

1 July 2020

Peter Sejersen

Technical Manager, TEPPFA

About the speaker

Peter Sejersen

- **Education:** MSc. Engineering
- **Danish citizen**
- **Has worked for Wavin in Scandinavia with a.o. manufacturing**
- **Technical Manager at TEPPFA since 2016**
- **Contact:** peter.sejersen@teppfa.eu
- **Tel.:** +45 4057 6920



Background and context

Operation Clean Sweep



- As part of the green deal, the European Commission will develop policies to reduce losses of raw materials.
- Commission is in a regular contact with PlasticsEurope to check if OCS is the best tool.
- TEPPFA is one of the PlasticsEurope OCS Partners.
- The European Commission expects industry to deliver a solution by end of 2024.
- Pressure is also increasing at national level: Law in France making OCS mandatory, as well as using rigid containers for transport.
- And as we know: the attention from media and NGO is increasing.

TEPPFA strategy

Agreed at the TEPPFA Executive Committee

- TEPPFA will maintain inventory of the member companies' sign-ups.
- Target (timing) per member company per production site will be set during Q3 2020.
- All the European operational sites of TEPPFA member companies must sign-up before end of 2021.
- TEPPFA will provide support where possible.



Internal Site Audit

Operation Clean Sweep: Practical Guidelines

1 July 2020

Anders Kildegaard Knudsen

Environmental Consultant, Danish Plastics Federation

About the presenter

Anders Kildegaard Knudsen

- **Education:** Cand.techn.soc., Environmental planning
- **Environmental Consultant at the Danish Plastics Federation since 2018**
- **Members:** 260 from all over the plastic value chain
- **Members include:** LEGO, Vestas, Coloplast, Grundfos; but majority are SME's
- **Previous experience:** environment, energy, climate from public, private and NGO
- **Contact:** akk@plast.dk



Plastindustrien.

Agenda

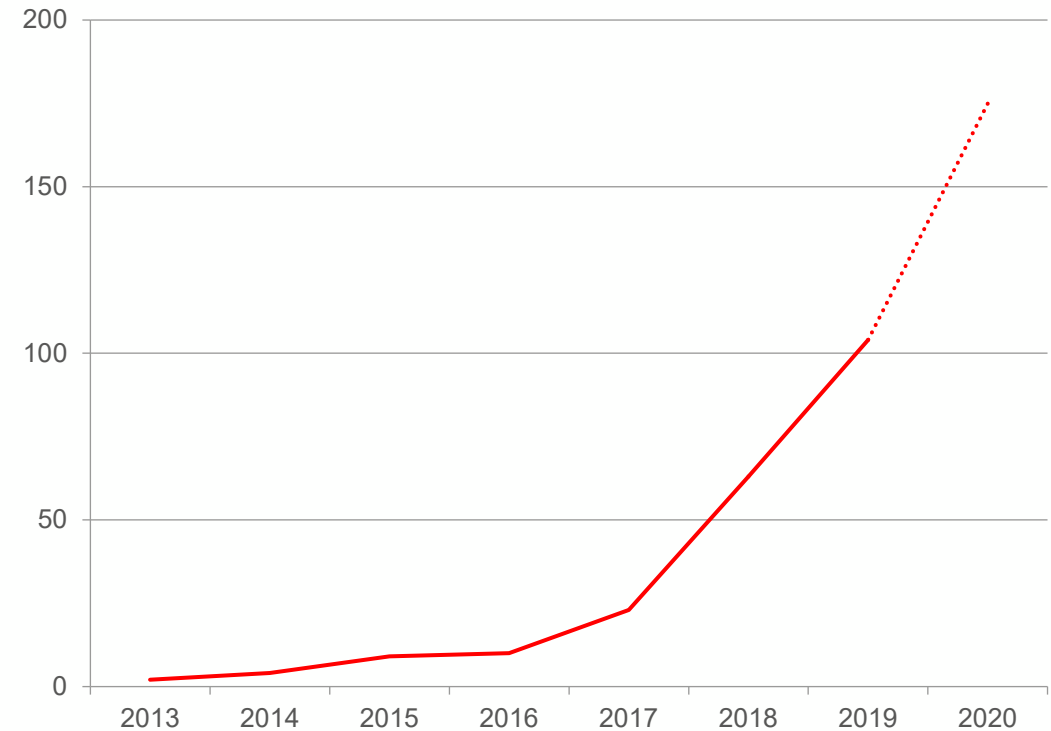
- **Danish Plastics Federation and OCS**
- **Internal Site Audit – getting started**
- **Step by step**
- **Conclusions + tools and manuals**



Danish Plastics Federation and OCS

- Responsible for implementing OCS among members
- 2018: employed with primary aim of implementing OCS.
 - Key: site visits & communication
 - The more attention – the stronger the commitment!
- OCS Goal (cf. strategy): 80 % sign-ups by 2020
- Status: ~55 %

OCS sign-ups 2013 - 2020



Internal Site Audit - getting started



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Environmental Consultant, Danish Plastics Federation

A few things to have in mind

- **Keep it simple – it's not rocket science**
- **Define the objective: Identify pellet spills and address them**
- **Alignment with Environmental Management System?**



Internal Site Audit (step by step)



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Environmental Consultant, Danish Plastics Federation

Conducting a site audit

Seven basic steps

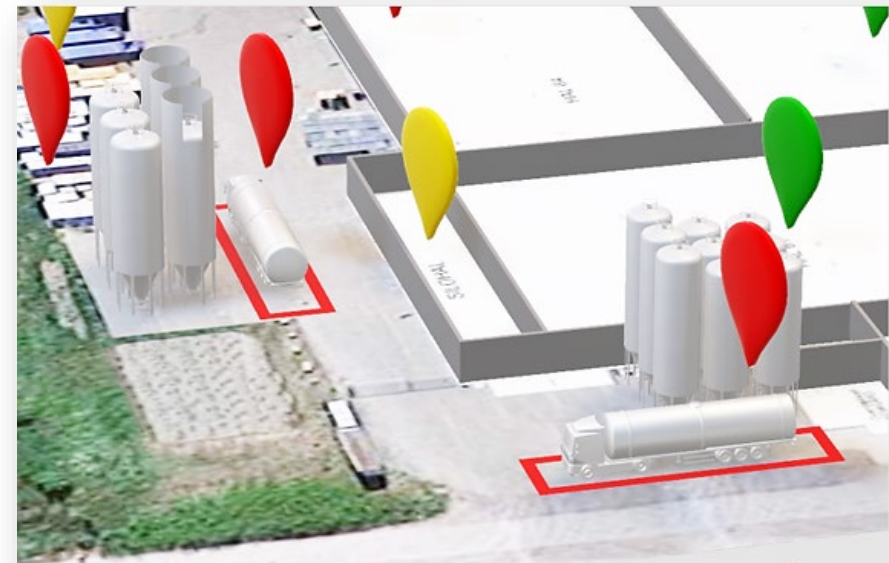
1. Check transfer points at your site
2. Identify the major spill areas
3. Determine the cause of spills in each area
4. Explore ways to solve each problem
5. Implement solution
6. Follow up to measure success
7. Repeat if necessary



Source: www.opcleansweep.eu/manual-tools/

Transfer points

- Where do pellets enter?
- Where and how are pellets handled?



Examples of spill areas

- Unloading (truck, silos, etc.)
- Internal transport
- Waste management (empty bags)
- Damages during transport (stacking)
- Processing



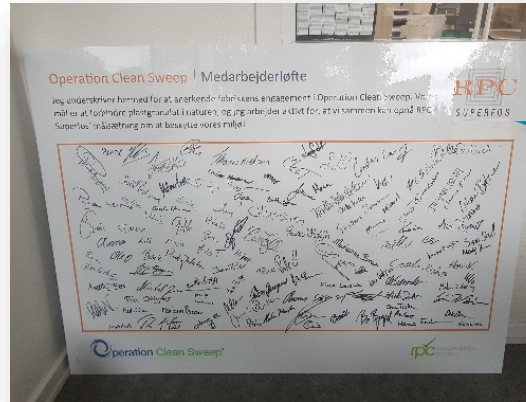
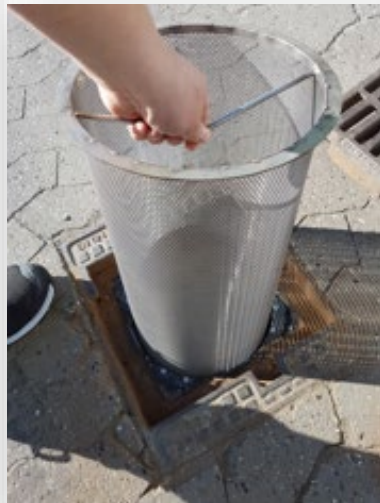
Cause of spills

- **Handling:** improper unloading?
- **Technical:** improper packaging?



Solve the problems!

- **Instructions:** signs, procedures, etc.
- **Technical:** filters in drains



I sign in order to recognise our company's engagement in Operation Clean Sweep and the pledge of preventing spillage of pellets. I will take part of the teamwork in order to reach the overall goals and targets set out in the pledge.

Implement solutions

OCS Action Plan

Area	Cause	Risk	Action	Who	When
Delivery	Spill when unloading	High	- Instruction for driver - Tools for cleaning up	[Employee name]	Q2 2020
Storage					
Processing					
Waste					

Follow up

- **Follow up periodically:**

- Does it work?
- Do we need to adjust?
- Maintenance (filters, etc.)

- **Measure success?**

- Relevant if integrated in Environmental Management Systems (eg. ISO 14001)
- E.g. count no. of pellets in quadrant



Conclusions



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Environmental Consultant, Danish Plastics Federation

Summing up

Internal Site Audit

1. Keep it simple – focus on spills and address them
2. Include the relevant people on the team – there is a lot of knowledge out there😊
3. Use the existing tools and manuals

Prevent Pellet Loss



Please do your
bit to keep
plastic pellets
out of the
environment!

Tools and manuals

www.opcleansweep.eu/manual-tools

- Check out the manual and the OCS website

The screenshot shows the Operation Clean Sweep website. The header features the logo and the tagline 'Objective: zero pellet loss!'. A navigation bar includes links for PROGRAMME, IMPACTS, SOLUTIONS (highlighted with a red circle), PARTNERS, NEWS, and SIGN UP. The main content area is divided into three columns. The left column has a section titled 'Expanding the good practices within the industry!' with links for 'The good practices' and 'The method', followed by a box titled 'Putting an end to plastic pellet loss' with links for 'Understand the impacts', 'Sign Up', and 'Latest updates'. The middle column is titled 'Manual and tools' and contains text about the manual and checklists, followed by a section for 'Operation Clean Sweep® online manual:' with links to download the manual in French, English, Dutch, Spanish, Italian, and Polish. Below this is a section for 'Management Checklists:' with a red circle around 'Site Audit Management' and links for Facility Equipment, Implementation & Training, and Employee Equipment. The right column has a section titled 'Discover the Operation Clean Sweep® online English manual' with a 'Download' link, and another section titled 'Engage your company in Operation Clean Sweep®' with a 'Sign up' link.

Operation Clean Sweep®
Objective: zero pellet loss!

PROGRAMME IMPACTS **SOLUTIONS** PARTNERS NEWS SIGN UP

Expanding the good practices within the industry!
The good practices ►
The method ►

Putting an end to plastic pellet loss
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Manual and tools
To assist the implementation of Operation Clean Sweep® and to create effective pellet containment measures, you find here a number of tools like the manual and checklists.
The manual provides an insight how to set up, review and improve existing environmental protection and safety measures under the light of pellet loss. You may want to use it as a starting point and to build your effective measures adjusted to your local needs.
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The checklists have been created to be customizable for your company. For example, you can insert your company logo and specific process steps may be added or removed to reflect your particular operations.
These enhancements will make it easy to create and copy forms that have the greatest value for your company.

Operation Clean Sweep® online manual:
Manual available in several language versions downloadable in PDF format
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Thanks for your attention!

Presenter's contact details

- Anders Kildegaard Knudsen
- akk@plast.dk
- (+45) 2489 3480



Plastindustrien.



Practical implementation of the OCS

Experiences from Nordisk Wavin A/S, Denmark

Operation Clean Sweep: Practical Guidelines

1 July 2020

Lars Baungaard

QA/E Manager Nordic Territory, Wavin

About the presenter

Lars Baungaard

- **Education:** Mechanical Engineer
- **Currently responsible for Quality and Environment in Wavin Nordic Territory (Finland, Sweden, Norway and Denmark).**
- **33 years at Nordisk Wavin A/S, Denmark**
- **Previous experience:** different positions within production, development, quality and environment
- **Certified Management system according to ISO 14001, ISO 9001, ISO 50001 and ISO 45001**
- **Contact:** lars.baungaard@wavin.com



A real problem

It is unavoidable not to have a spillage
but
we can avoid the spillage to end up in nature



Make your overview

Start to assess your site

- Where do we have risks of spillage?
- How big are the risks?
- Have we already done some mitigations?
- Do we have the right mitigations ?
- Where should we start?



Operation Clean Sweep

Site:

		Timeplan									
Activity	Responsible										
Identification of risk areas											
Risk assessments											
Ideas for countermeasures											
Implementation of countermeasures											
Development and implementation of Standard Operating Procedures											
Final Audit											

Make it easy to do the right things (nudging)

- Make it clear what you expect on site
- Provide the right equipment at the scene
- Check and report back in case of non-conformities



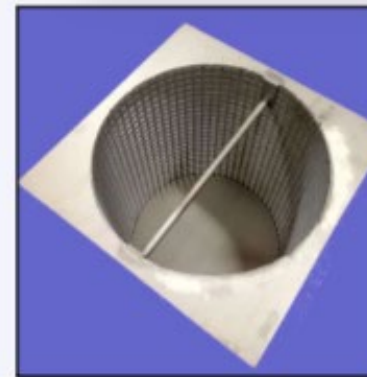
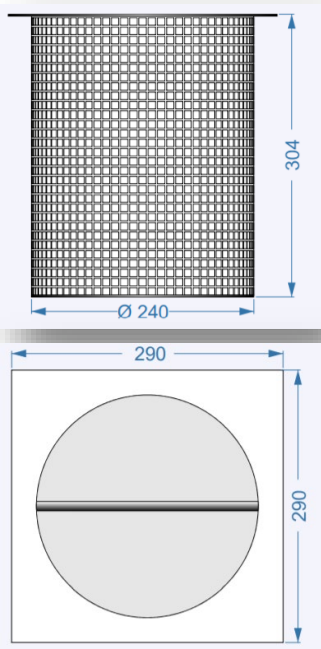
Make it easy to do the right things (nudging) II



- Put the waste bins in the right places (Where waste is created) and mark them clearly with text and pictograms.
- Assign people and make sure that the containers are used correctly and emptied in due time.

Introduce filters in the drains

- Introduce filters, where the risks are identified.
- Appoint one person for being responsible for cleaning and make a cleaning plan.
- Mesh size: 2x2mm
- Material: Stainless steel



Filters for powders e.g. PVC

- When plastics comes in form of powder, other filter setups must be introduced.
- Drains in unloading areas must be connected to a separator and fluids have to be filtered in a fine filter like a paper filter



Storage of materials

- Right storage areas for materials (Conditions)
- Assigning responsible personnel
- Cleaning plans for areas
- Right equipment for handling



Conclusions



- ✓ **Make a plan and follow up**
- ✓ **Make the set-up simple and understandable**
- ✓ **Make the right way the easiest way**
- ✓ **Introduce filters where needed**

Thanks for your attention!

Presenter's contact details



- Lars Baungaard
- lars.baungaard@wavin.com





Thank you

Expected legislative initiatives from EU Commission

Operation Clean Sweep: Practical Guidelines

1 July 2020

Jérémy Fouriau

Environmental Affairs Manager, PlasticsEurope

About the presenter



Jérémy Fouriau

- **Education:** MSc. European Studies, MSc. Information and Communication
- **Environmental Affairs Manager at PlasticsEurope**
- **PlasticsEurope** - the leading trade association representing plastics manufacturers active in the EU plastics industry.
- **Members:** 100 member companies, producing over 90% of all polymers across the EU28 member states plus Norway, Switzerland and Turkey.
- **Contact:** Jeremy.Fouriau@plasticseurope.org



PlasticsEurope
Association of Plastics Manufacturers

- **Operation Clean Sweep® (OCS) perceived as appropriate tool to solve the pellet loss issue**
- **But since a couple of years, criticisms from NGOs about:**
 - **Uptake:** 700 OCS signatories out of 60.000 potential companies in plastics value chain
 - **Accountability:** who is responsible for the losses? Who is really taking measures?
 - **Transparency:** effectiveness of the measures implemented, progress, how to measure pellet loss?
 - **Port of Antwerp:** even in areas with strong efforts from the industry, no clear improvement
 - **Request:** regulatory action
- **Consequence: pellet loss gets higher in the political agenda, priority for EU Commission**

A European Strategy for Plastics in a Circular Economy (2018)

- Communication From The Commission To The European Parliament, The Council, The European Economic And Social Committee And The Committee Of The Regions: A European Strategy for Plastics in a Circular Economy (16/01/2018)
 - Annex I: List of future EU measures to implement the Strategy



Actions to curb microplastics pollution:	
- start the process to restrict the intentional addition of microplastics to products via REACH	ongoing
- examination of policy options for reducing unintentional release of microplastics from tyres, textiles and paint (e.g. <i>including minimum requirements for tyre design (tyre abrasion and durability if appropriate) and/or information requirement (including labelling if appropriate), methods to assess microplastic losses from textiles and tyres, combined with information (including possibly labelling)/minimum requirements, targeted research and development funding</i>)	ongoing
- development of measures to reduce plastic pellet spillage (e.g. <i>certification scheme along the plastic supply chain and/or Best Available Techniques reference document under the Industrial Emissions Directive</i>)	Q1 2018 onwards
- evaluation of the Urban Waste Water Treatment Directive: assessing effectiveness as regards microplastics capture and removal	ongoing

- **Pre-production pellets i.e. pellets, powders and flakes**
 - Under the scope of the restriction
 - Under derogations:
 - 4 (a) Mixtures containing microplastics used **at industrial sites**
 - 5 (b) Substances or mixtures where the physical properties of microplastic are permanently modified when the substance or mixture is used such that the polymers no longer fulfil the meaning of a microplastic
- **As a result: labelling & reporting requirements as of 2024 (?)**

→ But... What's next???



- **The purpose of this Recommendation is to reduce marine litter (specifically to prevent where possible or significantly reduce the loss of plastic pellets into the marine environment) by promoting:**
 - the timely development and implementation of effective and consistent pellet loss prevention standards, developed by standards bodies, and
 - certification schemes for the entire plastic supply chain.
- **The recommendation will also support European Union (EU) Member States in implementing the EU Plastics Strategy in a harmonised implementation of the schemes.**
- **Member States should provide an initial report to the appropriate OSPAR subsidiary body on the progress of developing (and promoting once applied) certification schemes for the plastic pellet supply chain by 31 January 2022.**



- **French law on Circular Economy: pellet loss procedures and measures to be implemented + pellet loss certification scheme in place by 2022**
- **Scottish Steering Group on pellet loss: pellet loss standard + certification scheme development**
- **German proposals of Federal Administration: support to PlasticsEurope's OCS concept with externally validated certification scheme**

La loi anti-gaspillage pour une économie circulaire : les mesures phares

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Le Jeudi 30 janvier 2020



Crédits : A. Bouissou / Terra



Preventing plastic pollution from pellet loss

Taking a supply chain approach to reduce pollution and waste

Prepared by Zero Waste Scotland and published by the Scottish Government on behalf of the Pellet Loss Steering Group

Thanks for your attention!

Presenter's contact details



- **Jérémy Fouriau**
- Jeremy.Fouriau@plasticseurope.org



PlasticsEurope
Association of Plastics Manufacturers

Questions, Answers & Conclusions

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Tools and manuals

www.opcleansweep.eu/manual-tools

- Manual
- Management checklists
- Employee checklists

Your commitment to Operation Clean Sweep®

Please provide a few details to download the OCS pledge application form.

REQUEST MEMBERSHIP

☐ Our company wishes to implement and become a member of the Operation Clean Sweep® programme for the protection of aquatic and marine environment.

Organisation * Category


Address *

City * Country * Postal code *

Manager in charge * Function / Job title *

Name Family name

Phone * Fax Email *

**Operation Clean Sweep®**
Objective: zero pellet loss

[PROGRAMME](#) [IMPACTS](#) [SOLUTIONS](#) [PARTNERS](#) [NEWS](#) [SIGN UP](#)

Expanding the good practices within the industry!

[The good practices](#) ▶

[The method](#) ▶

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- Facility Equipment
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Employee Checklists

- Processor Operations
- Warehouse
- Car Cleaning/Loading
- Railroad
- Transloader

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Questions & Answers



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OCS Webinar Overview

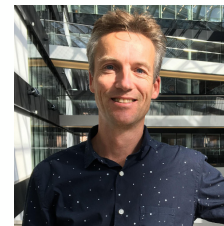
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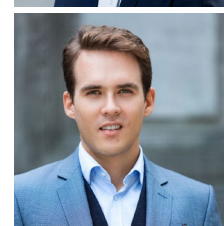
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TEPPFA Aisbl

71 Kortenberglaan,
Brussels 1000, Belgium

T: +32 2 736 24 06 71

E: info@teppfa.eu

Visit our website

www.teppfa.eu

