

# 2023 Prometheus Group European User Conference

## How OMV uses RiskPoynt with SAP to drive Operational Improvements

Presenter: Karolina Tarkowska-Malik  
Düsseldorf, June 1, 2023



# Agenda

- |          |  |
|----------|--|
| <b>1</b> | <b>Introduction</b>                    |
| 2        | Barrier Management Implementation      |
| 3        | Barrier Management Principles          |
| 4        | Barrier Management SAP PM Integrations |
| 5        | Barrier Management Benefits            |

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## Introduction

- **Karolina Tarkowska-Malik**

- *Senior Integrity Expert*

- M.Sc. Chemical and Process Engineering
- OMV Energy, Austria
- 10+ years maintenance and integrity engineering
- ISO 9001 Quality Auditor



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## Introduction

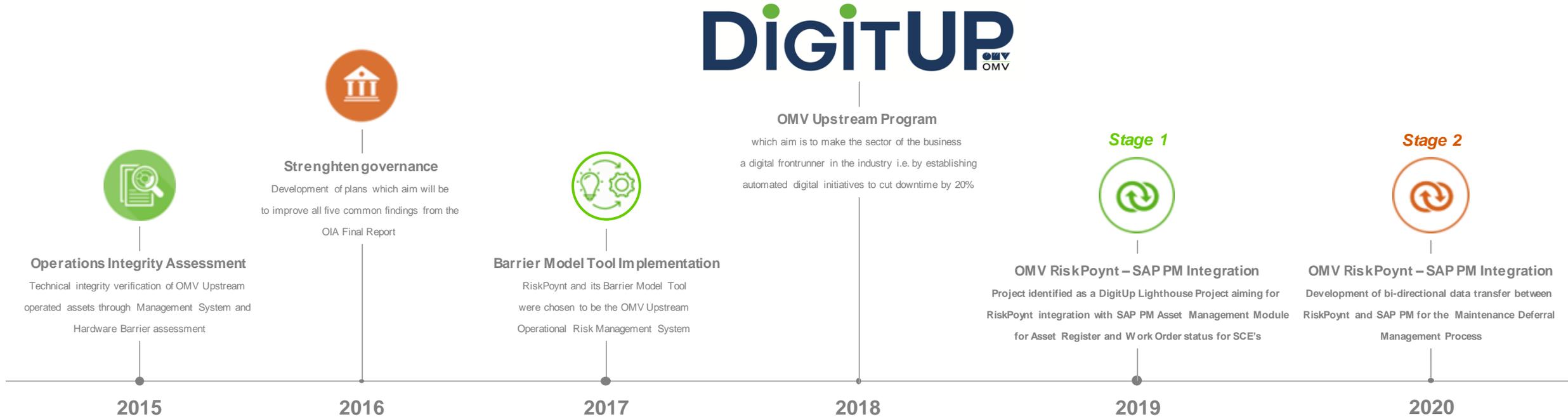
- **OMV Group**

- *Vienna, Austria*
- Austrian international, integrated oil, gas and chemicals company
- Founded **1956**
- Number of employees **22,400** (2021)
- OMV Energy production: **486 kboe/d** (2021)
- **OMV Energy** present in **4 core regions**:
  - Central & Eastern Europe
  - Middle East & Africa
  - North Sea
  - Asia-Pacific



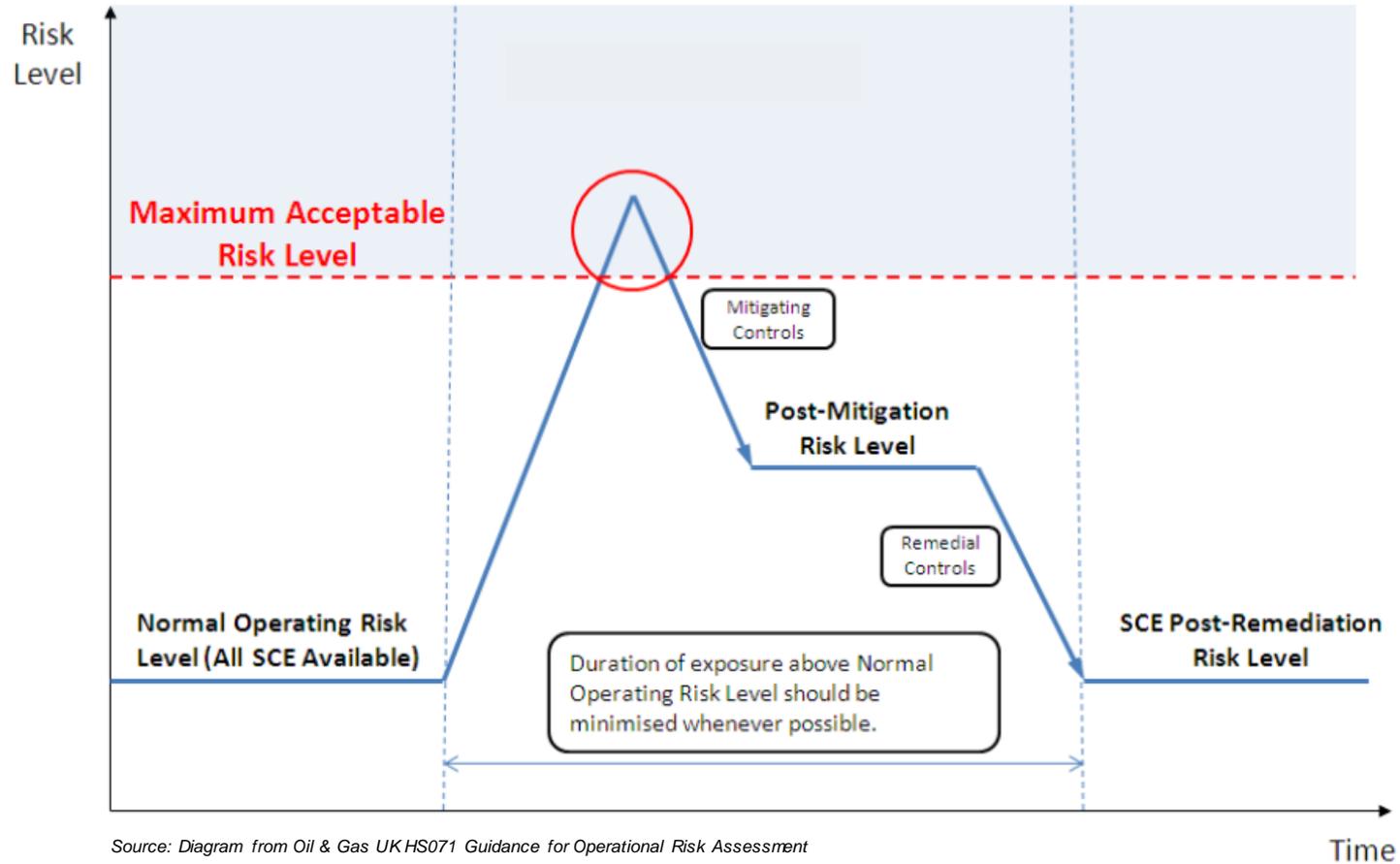
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## Barrier Management Implementation



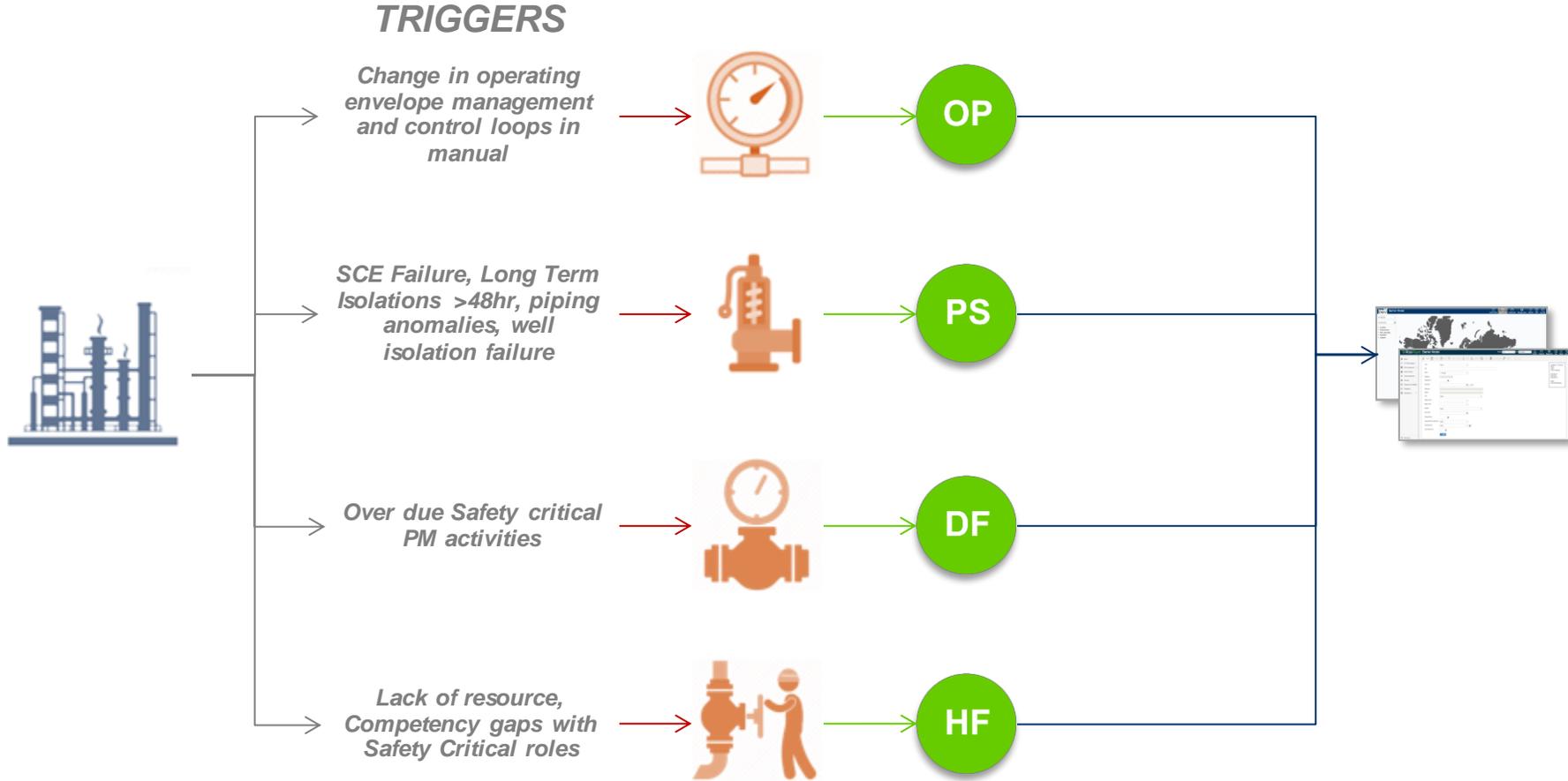
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## Barrier Management Principles



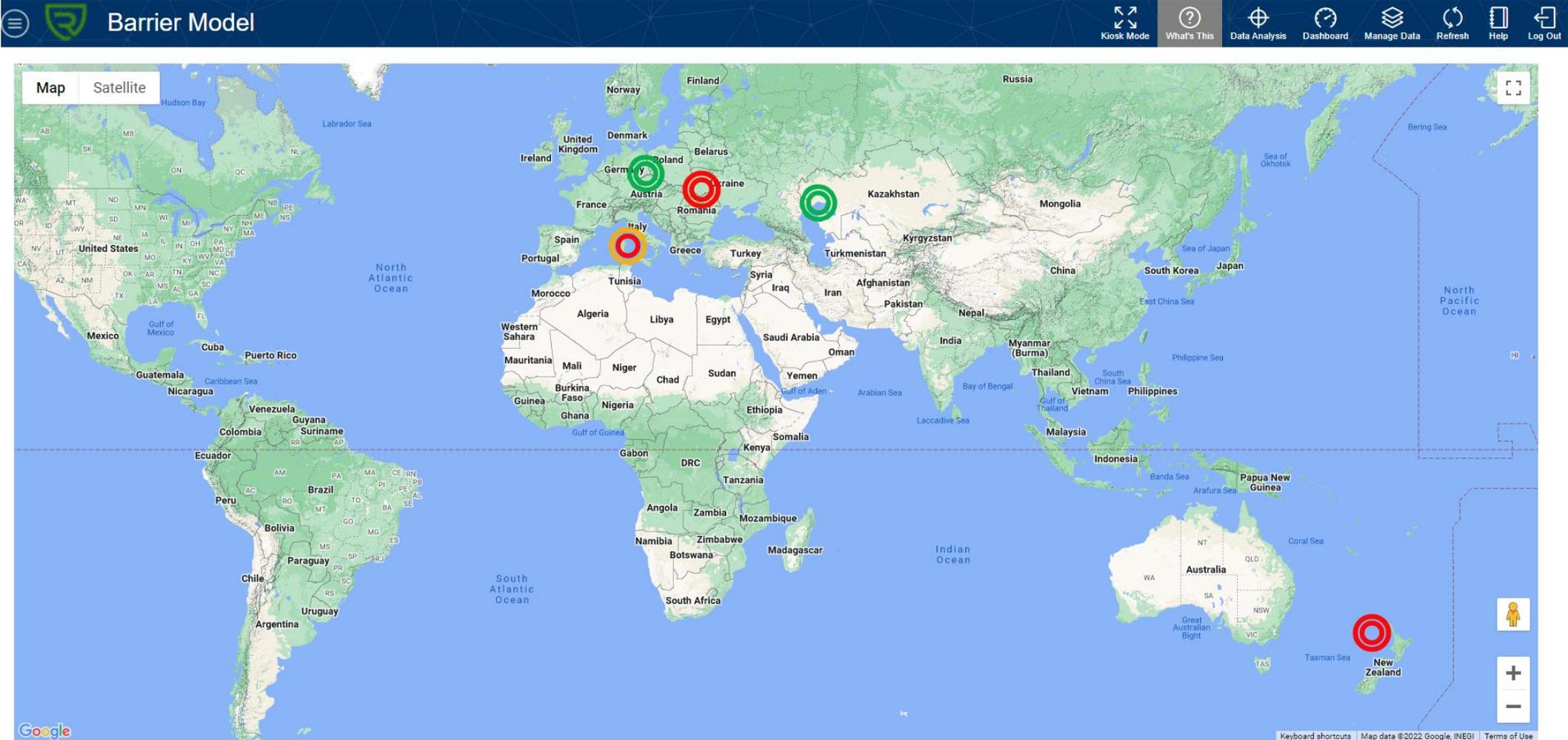
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## Barrier Management Principles



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## Barrier Management Principles



Source: OMV RiskPoynt QA (TEST System Data)

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## Barrier Management Principles

UK English

08/04/2022

- ▶ AUSTRIA
- ▶ KAZAKHSTAN
- ▶ NEW\_ZEALAND
  - ▶ EPJV
  - ▶ MAARI
  - ▶ MAUI
    - ▶ MAUI A
    - ▶ MAUI B
    - ▶ MAUI GEN
    - ▶ MAUI RIG
    - ▶ MPS
  - ▶ POHOKURA
  - ▶ TANK\_FARMS
  - ▶ ROMANIA
  - ▶ TUNISIA

### Regions for NEW\_ZEALAND



|                      | Initial                               | Mitigated                             |
|----------------------|---------------------------------------|---------------------------------------|
| Structural           | <span style="color: yellow;">■</span> | <span style="color: green;">■</span>  |
| Process Containment  | <span style="color: red;">■</span>    | <span style="color: yellow;">■</span> |
| Ignition Control     | <span style="color: red;">■</span>    | <span style="color: yellow;">■</span> |
| Detection Systems    | <span style="color: yellow;">■</span> | <span style="color: green;">■</span>  |
| Protection Systems   | <span style="color: yellow;">■</span> | <span style="color: yellow;">■</span> |
| Shutdown Systems     | <span style="color: yellow;">■</span> | <span style="color: yellow;">■</span> |
| Emergency Response   | <span style="color: red;">■</span>    | <span style="color: yellow;">■</span> |
| Lifesaving Systems   | <span style="color: yellow;">■</span> | <span style="color: yellow;">■</span> |
| Environmental Impact | <span style="color: yellow;">■</span> | <span style="color: yellow;">■</span> |

|                      | Initial                               | Mitigated                             |
|----------------------|---------------------------------------|---------------------------------------|
| STRUCTURAL INTEGRITY | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| PROCESS CONTAINMENT  | <span style="color: yellow;">■</span> | <span style="color: yellow;">■</span> |
| IGNITION CONTROL     | <span style="color: red;">■</span>    | <span style="color: yellow;">■</span> |
| DETECTION SYSTEMS    | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| PROTECTION SYSTEMS   | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| SHUTDOWN SYSTEMS     | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| EMERGENCY RESPONSE   | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| LIFESAVING SYSTEMS   | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |
| ENVIRONMENTAL IMPACT | <span style="color: green;">■</span>  | <span style="color: green;">■</span>  |



SITE MAUI B

Source: OMV RiskPoynt QA (TEST System Data)

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## Barrier Management Principles

Barrier Model

[Helix](#) [Kiosk Mode](#) [What's This](#) [Data Analysis](#) [Dashboard](#) [Manage Data](#) [Refresh](#) [Help](#) [Log Out](#)

**SITE : MAUI B; Date: Mon Apr 04 2022**

UK English

04/04/2022

Deck Images

- ▶ AUSTRIA
- ▶ KAZAKHSTAN
- ▶ NEW\_ZEALAND
- ▶ EPIV
- ▶ MAARI
- ▶ MAUI
- ▶ MAUI A
- ▶ MAUI B
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- ▶ MAUI RIG
- ▶ MPS
- ▶ POHOKURA
- ▶ TANK\_FARMS
- ▶ ROMANIA
- ▶ TUNISIA

CLOSE

Initial



Barrier

STRUCTURAL INTEGRITY
PROCESS CONTAINMENT
IGNITION CONTROL
DETECTION SYSTEMS
PROTECTION SYSTEMS
SHUTDOWN SYSTEMS
EMERGENCY RESPONSE
LIFESAVING SYSTEMS
ENVIRONMENTAL IMPACT

Mitigated



SUMMARY REPORTS RISK RECORDS SCE CONDITION RELIABILITY CONTROL ACTIONS DOCUMENTS

| Type           | Area         | Barrier | PS Code | Record No    | Details  | Initial Score | Residual Score | PEAR | Status           | Approved   | Valid To   | Extensions |
|----------------|--------------|---------|---------|--------------|--|---------------|----------------|------|------------------|------------|------------|------------|
| Deferral       | GENERAL AREA | PC      | PC008   | MPB-21-01291 | MB-07 WIT-2 Deferral of Work Order: 60022086                               | 9             | 4              | P4-A | Overdue          | 04/06/2021 | 30/12/2021 | 0          |
| Deferral       | GENERAL AREA | SI      | SI002   | MPB-21-01316 | Deferral of w/o 60013991 564714 B and P Corroded Lightning Rod             | 4             | 4              | P4-A | Overdue          | 10/10/2021 | 31/03/2022 | 0          |
| Deferral       | GENERAL AREA | PC      | PC004   | MPB-21-01308 | Deferral of Work Order: 66027487 MPB - T-6001 INTERNAL INSP                | 4             | 4              | A3-B | Approved         | 25/08/2021 | 24/11/2022 | 0          |
| Operation      | GENERAL AREA | IC      | IC003   | MPB-21-01296 | Use of temporary equipment during MPB PnA operations                       | 12            | 4              | P4-A | Approved         | 02/07/2021 | 30/09/2021 | 0          |
| Operation      | GENERAL AREA | IC      | IC002   | MPB-20-01202 | Occupy the Level 2 accommodation whilst not having dedicated dp monitoring | 10            | 5              | P5-A | Approved         | 22/10/2020 | 30/04/2021 | 0          |
| Process Safety | GENERAL AREA | ER      | ER002   | MPB-21-01320 | Impingement of dropped object frame legs on top deck escape pathways       | 4             | 4              | P4-A | Approved         | 03/10/2021 | 22/12/2022 | 0          |
| Process Safety | GENERAL AREA | PC      | PC008   | 608967       | Flow MB-07F with a storm choke   | 4             | 4              | A3-B | Overdue          | 29/04/2021 | 31/01/2022 | 3          |
| Process Safety | GENERAL AREA | SD      | SD004   | MPB-20-01120 | Flow MB-07 prior to a full Storm Choke function test                       | 4             | 2              | P2-A | Pending Approval |            | 29/02/2020 | 0          |

10 Items per page 1 - 8 of 8 items

Barrier Model Version 6.2.8 (c) PERMCO LLC 2021

User X452183: Last Login 04-APR-2022 09:46:10 UTC

Source: OMV RiskPoynt QA (TEST System Data)

10 | 2023 Prometheus Group European User Conference, Karolina Tarkowska-Malik, June 1, 2023

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## Barrier Management Principles

The screenshot displays the RiskPoynt Barrier Model software interface. The top navigation bar includes a hamburger menu, the RiskPoynt logo, and the text "Barrier Model". On the right side of the top bar, there are icons for MALI, MALI B, X452183, Dashboard, Manage Data, Help, Refresh, and Log Out. The left sidebar contains a list of navigation options: Home, PS Code Mapping, Deferrals, Risk Assessment (highlighted with an orange box), Action Tracker, Shift Awareness, Control Measures, Control Availability, Security, Delegation, Maintenance, and System Setup. The main content area shows a form for creating a barrier. The form includes fields for Type, Title, Status (set to "1 - Request"), Raised By, Date Valid To, Equipment (highlighted with an orange box), Description, System, Area, Safety Critical (set to "Yes"), Barrier Code (set to "STRUCTURAL INTEGRITY"), PS/SCE, Schedule Date, and Related Bow-tie. A "Pending Actions" panel is visible on the right side of the form, containing fields for Installation, RA No, Title, Status, Source Language, Date Raised, Extensions, Date Valid To, Number of Days, PEAR, Overall Risk Ranking, and Last Updated By. The footer of the interface shows "Barrier Model Version 6.2.8 (c) PERMCO LLC 2021" and "User X452183: Last Login 04-APR-2022 09:46:10 UTC".

Source: OMV RiskPoynt QA (TEST System Data)

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## Barrier Management Principles

The screenshot displays the RiskPoynT Barrier Model interface. The top navigation bar includes 'RiskPoynT Barrier Model' and various user and system icons. The left sidebar lists navigation options like Home, PS Code Mapping, Deferrals, Risk Assessment, Action Tracker, Shift Awareness, Control Measures, Control Availability, Security, Delegation, Maintenance, and System Setup.

The main content area is divided into two sections: 'Hazard' and 'Control'. The 'Hazard' section contains a table with columns for Hazard, Initial (SV, LH, Risk), and Residual (SV, LH, Risk, PEAR). Three hazard records are listed, each with a detailed description and associated risk levels.

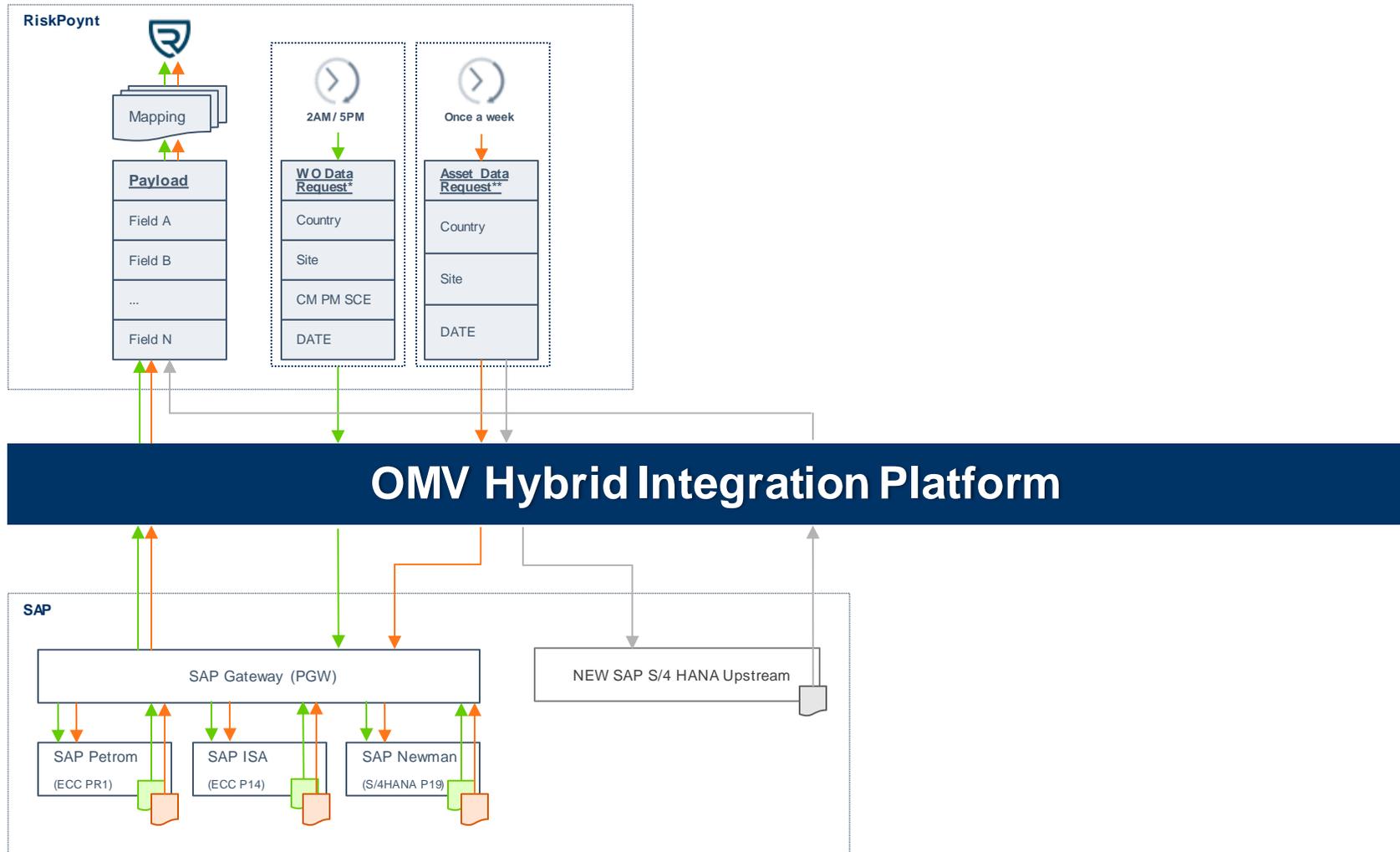
The 'Control' section contains a table with columns for Control, Control Type, Action, Frequency, and Schedule. Two control records are listed, detailing monitoring and testing procedures.

On the right side, there is a 'Pending Actions' box with details for Installation MAUI B, RA No 609367, Title: Flow MB-07F with a storm choke, Status: Overdue, Source Language: ENUK, Date Raised: 31/05/2018, Extensions: 3, Date Valid To: 31/01/2022, Number of Days: 340, PEAR: A3-B, Overall Risk Ranking: 4 (with a green circle icon), and Last Updated By: RODNEY6 on 31/01/2022 01:46.

Below the main interface, a detailed risk matrix is shown, plotting Severity (1-5) against Likelihood (A-E). The matrix includes descriptive text for each severity level and corresponding likelihood categories (Improbable, Unlikely, Seldom, Probable, Frequent).

Source: OMV RiskPoynT QA (TEST System Data)

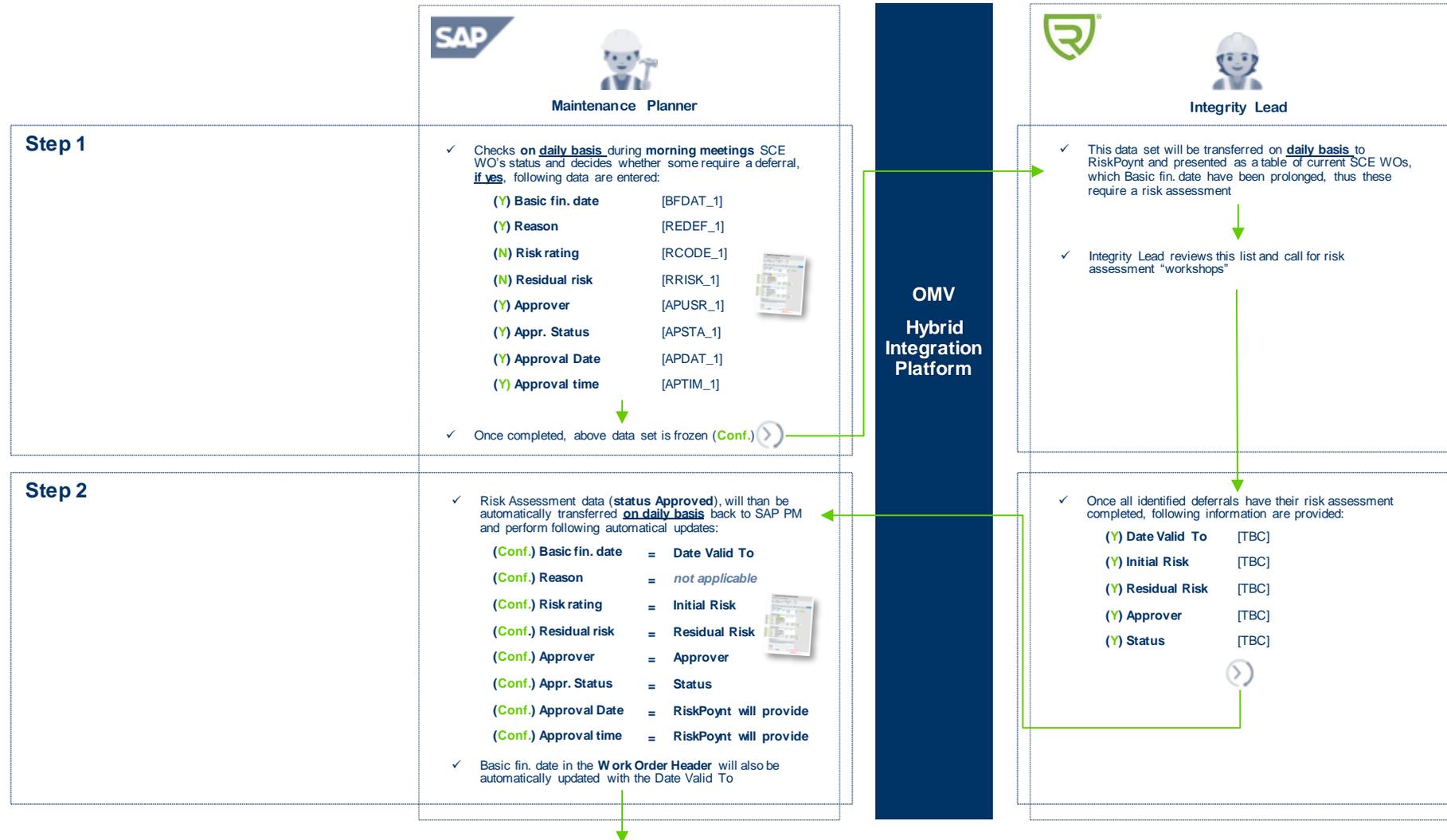
# Barrier Management SAP PM Integrations (Part 1)



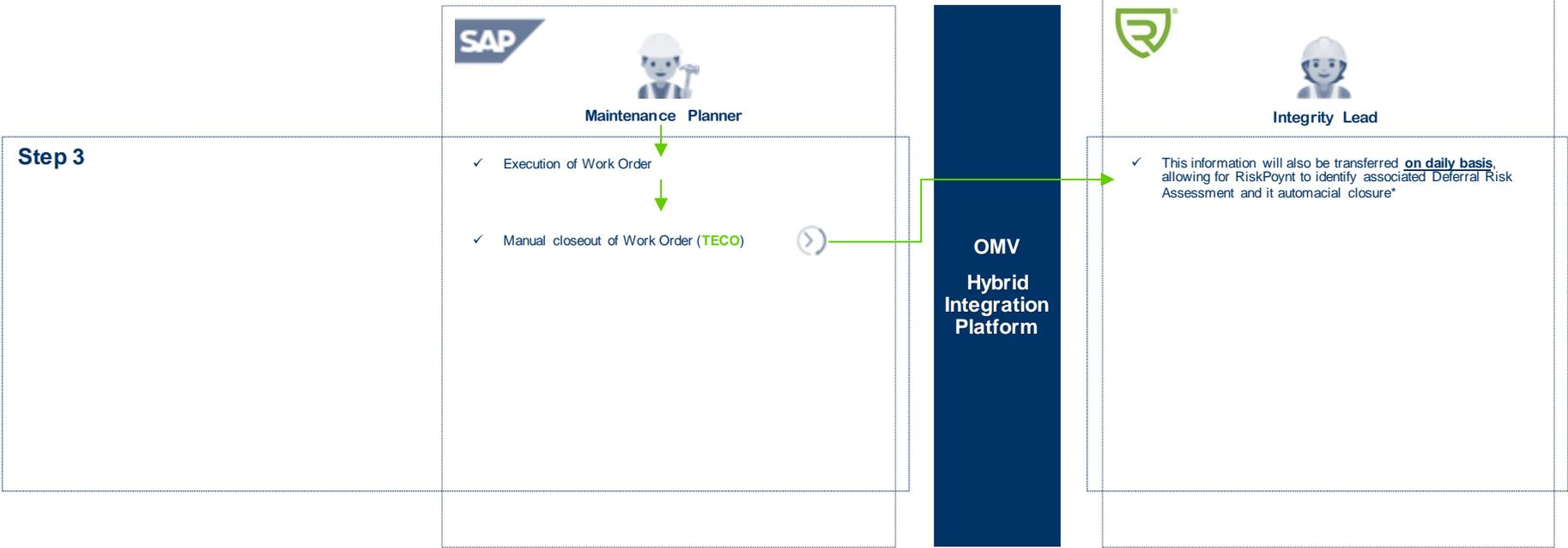
# Barrier Management SAP PM Integrations (Part 1)



# Barrier Management SAP PM Integrations (Part 2)



# Barrier Management SAP PM Integrations (Part 2)



# Barrier Management Benefits

- All Operational Risk Assessment centrally located, transparent and auditable
- Hardware Barrier condition visually presented enabling quicker and better decision-making for safe operations
- Residual risk monitored, mitigation measures tracked, and recovery plans followed
- Standardized and automated risk assessment workflow easily accessible for both field and office personnel
  
- Bi-Directional Integration for the SCE Maintenance Deferral Process has enforced:
  - Process Safety Culture
  - Standard Compliance
  - Interdisciplinary Communication

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## Q&A



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