



equinor

SAC @ Equinor

SBN Innovation Team – SAC User group

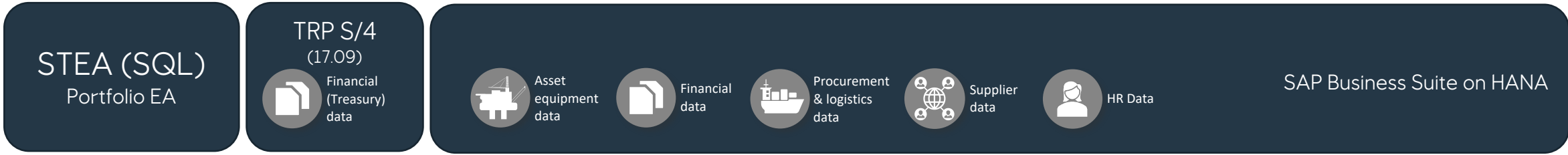
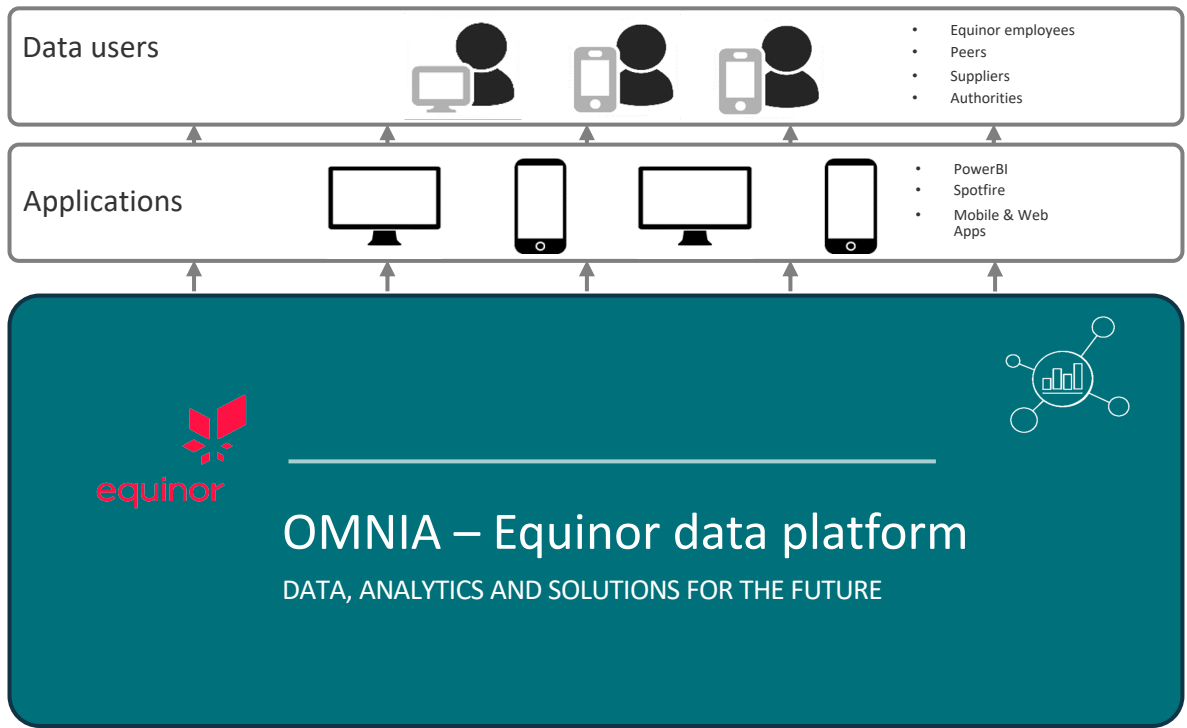
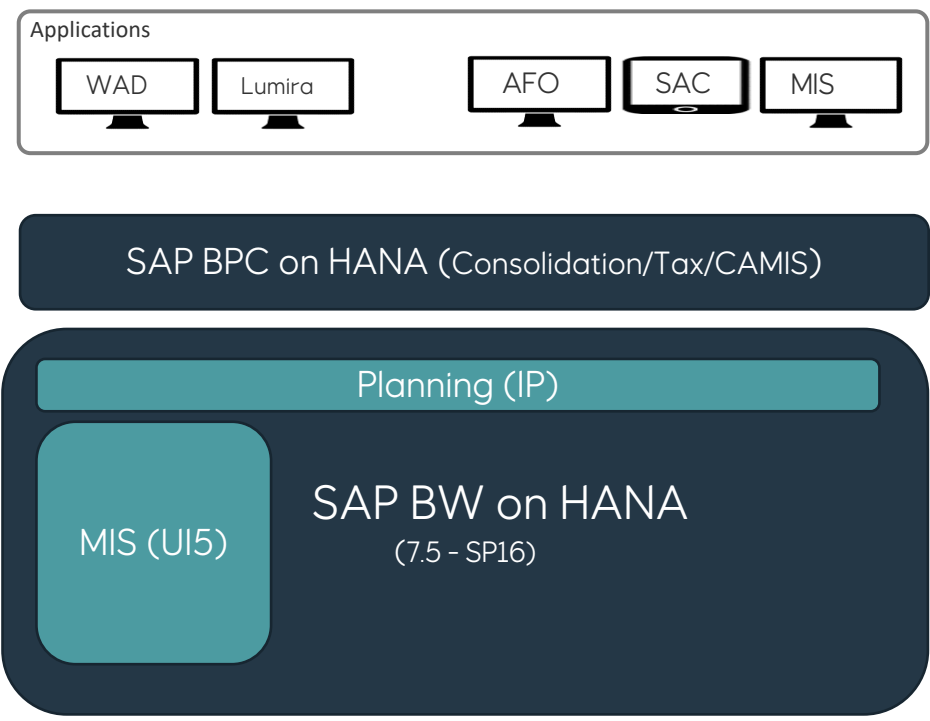
18.03.2020



- Overall architecture for BI landscape
 - Heavy user of BW queries today
 - Using MIS (Ambition to action) as the main KPI reporting portal
 - 6000 WADs in MIS
 - 1100 Lumira Dashboards (instances)
- SAC Roadmap
 - SAC for BW Live Data
 - Parameterization of BW queries with MIS
- Demo of SAC stories
 - Gullfaks OPEX story.
 - CO2 Intensity Dashboard
 - Task Manager Dashboard
- SAC templates for Story building
- Explore / Data Analyzer features

-
- The image shows a business dashboard for 'IMP Analytics Cloud' displayed on both a laptop and a smartphone. The dashboard is titled 'Company Overview' and provides a comprehensive view of the company's financial and operational performance.
- Operating Profit vs. PV in USD**
- | Period | Operating Profit vs. PV in USD |
|-------------------|--------------------------------|
| 2018 Q1 - 2019 Q4 | \$1,316,409 (+30.74%) |
- Operating Profit in mEUR**
- | Period | Operating Profit in mEUR |
|---------|--------------------------|
| 2018 Q1 | 108 |
| 2018 Q2 | 123 |
| 2018 Q3 | 151 |
| 2018 Q4 | 145 |
| 2019 Q1 | 154 |
| 2019 Q2 | 151 |
| 2019 Q3 | 160 |
| 2019 Q4 | 182 |
- Headcount**
- | Period | Headcount |
|----------|-----------|
| 2018 Dec | 12.1 |
| 2019 Jan | 2.1 |
| 2019 Feb | -1.4 |
| 2019 Mar | 3.9 |
| 2019 Apr | -1.6 |
| 2019 May | 10.1 |
| 2019 Jun | 10.1 |
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High Level Architecture– Equinor



Adoption waves

6000 WAD's
set up in MIS today

(Want to, but not so easy to replace)

1100 Lumira Dashboard instances
2200 (unique) users every month

(and numbers are still growing....)

????

Self-service analytics is
a game-changer

Web Application
Designer

SAP Lumira

Power BI

SAP Analytics
Cloud

SAC Roadmap – Equinor 2019 – 2021

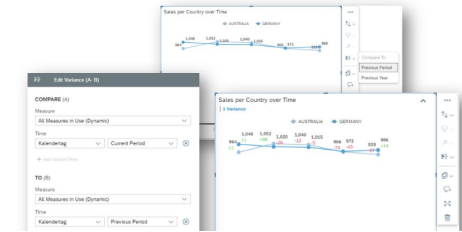


PoC Evaluation

VR02.2020 SP16
(Time-based variance / GeoMaps)

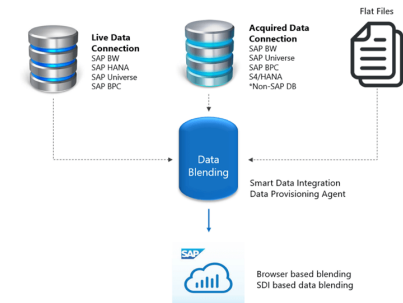
Live BW Support for Time Variances

Time based variances on Live-BW models can now be created within the story, and they will also support Recommended Comparisons, giving you expertly curated ways to view your data.



Data Blending SP16

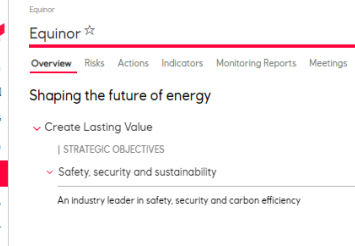
- BW Live with Imported data
- BW Live with BW Live models



Integrate SAC to MIS

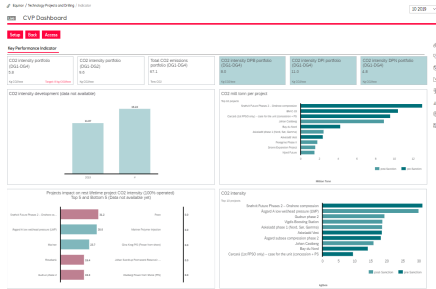
(Replace Lumira and KPI WAD's integrated in MIS)

- URL API
- Parameterization
- Guidelines



Application Designer to replace Lumira and WAD's

- Global filters
- CSS support
- Complex applications with multiple data-sources



Augmented analytics for BW Live

- SMART Insight
- SMART Insight on Variances
- SMART Predict



Running business



Today

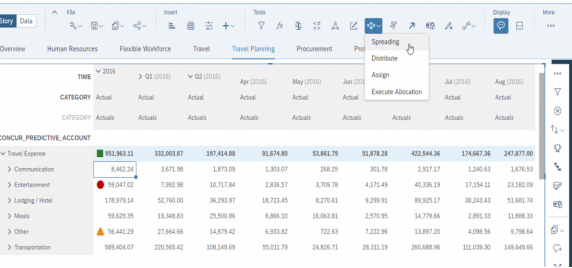
Connect to non-SAP data sources

- OpenConnector
- APOS Gateway



Planning

- Upgrade existing BW IP solution to BPC Embedded
- Use SAC as front-end tool for planning input. Write-back to BW.



Support growth and strategy

Future

Implementation Status

Finished Tasks

- Set-up Live Connections to SAP BW and S/4HANA (Treasury & Payments)
- Upgraded SAP BW system to 7.50 Support Stack 16
- Migrated SSO log-on to Azure AD
- Implemented dynamic user creation and team assignments in SAC.
- Implemented SAC story templates with Equinor font and colors
- Enabled embedding of SAC stories into MIS (iFrame)
- Evaluated SAC Mobile app. Decided to use Safari iOS browser instead.

Ongoing Tasks &/or issues

- BW
 - Enable Geodata for SAP BW Live Connection (SP16)
 - Enable data blending in SAC (SP16)
 - BW Live model to BW Live model
 - BW Live model with imported data
 - Planning
 - Upgrade BW IP to BPC Embedded
- SAC
 - Enable Story prompt parameterization via SAC URL API
 - Explore Analytics Designer for building SAC applications/Enterprise Dashboards
- Connectivity to non-SAP datasources

Integrate SAC applications/stories into MIS



CVP Dashboard

The information shown here applies to the selected period only. To show the information that applies to all future periods, [click here](#).

Back Access

2. Key Performance Indicator / Monitoring Report

REPORT TYPE

Key Performance Indicator Monitoring Report

GENERATING METHOD

Manual Automatic External Reference

REPORT TEMPLATE

CVP Key Project Information

INVOKE APPLICATION BY

Queries and Variables Bookmark

VARIABLES

Test Report

PV	VARIABLE NAME	LUMIRA DESIGNER VARIABLE
☐	Select organisational hierarchy unit (CVPORGEH)*	XCVPORGEH
☐	Select CVP projects (CVPPROJ)	XCVPPROJ
☐	Org. Unit (Sel. Opt.) (ZH_ORG_U)	XZH_ORG_U
☐	Incident exclude indicator (ZSXCLIND)	XZSXCLIND
☐	Org unit single (ZP_ORG_U)	XZP_ORG_U
☐	Infotype mandatory default R (ZSMINFTP)*	XZSMINFTP
☒	Calendar Year/Month (default: last month) (D_PBACALM)*	XD_PBACALM
☐	Involved org unit (mult.sel) (D_HIVORGUNIT_SEL)	XD_HIVORGUNIT_SEL

CVP Dashboard CO2 intensity CVP dashboard in SAC

Setup Back Access Share

Monitoring Report

CVP Project (44)

CO2 intensity KPI Drill down charts CO2 intensity by project Table for project filtering

Org unit: TPD Phase DG1-DG4 - Concept planning Definition and Execution

Current portfolio target	CO2 intensity TPD portfolio	Total CO2 emissions TPD	CO2 intensity TPD - DPB	CO2 intensity TPD - DPI	CO2 intensity TPD - DPN
7	7.2	68.0	8.3	14.0	6.1
Target CO2 Intensity (DG1-DG4)	CO2 intensity KPI (DG1-DG4)	CO2 MTons (DG1-DG4)	CO2 intensity KPI (DG1-DG4)	CO2 intensity KPI (DG1-DG4)	CO2 intensity KPI (DG1-DG4)

CO2 intensity development (KG/BOE)

CO2 million tonn per project DG1-DG4

CO2 intensity benchmark DG1-DG4

Trusted Origins

Enter the origins that will be hosting your client application, including protocol, hostname, and port. These origin values will allow SAP Analytics Cloud to be embedded in your client application.

If your users are using the application with Internet Explorer 11 or Microsoft Edge, add a "trustedorigin" query parameter with the value of your application origin to the url to be loaded in the iframe. Example: <https://us.sapanalytics.cloud?trustedorigin=https://example.com>, where <https://example.com> is the origin of your application.

☒ Allow all origins

[+ Add a Trusted Origin](#)

- iFrame Embedding
- SAC URL Parameterization
- Scalability

What do we mean by URL parameterization?

- Embedding stories (remove the menu and pagebar in a Story)

```
https://equinor-asa.eu10.sapanalytics.cloud/sap/fpa/ui/app.html#;view_id=story;storyId=39F1BAF3A74C1C59F2122DE62ACDEAOE;  
mode=embed;PageBar=disable
```

- Automatically fill in prompt variables from URL, example profit center node

```
https://equinor-asa.eu10.sapanalytics.cloud/sap/fpa/ui/app.html#;view_id=story;storyId=39F1BAF3A74C1C59F2122DE62ACDEAOE;  
v01Model=t.1:Ccg6kxwk59f7ojvwv4sy0bw8w0;v01Par=D_HPRCTR_AUTH_M;v01Val=OHIER_NODE!1000STAT
```

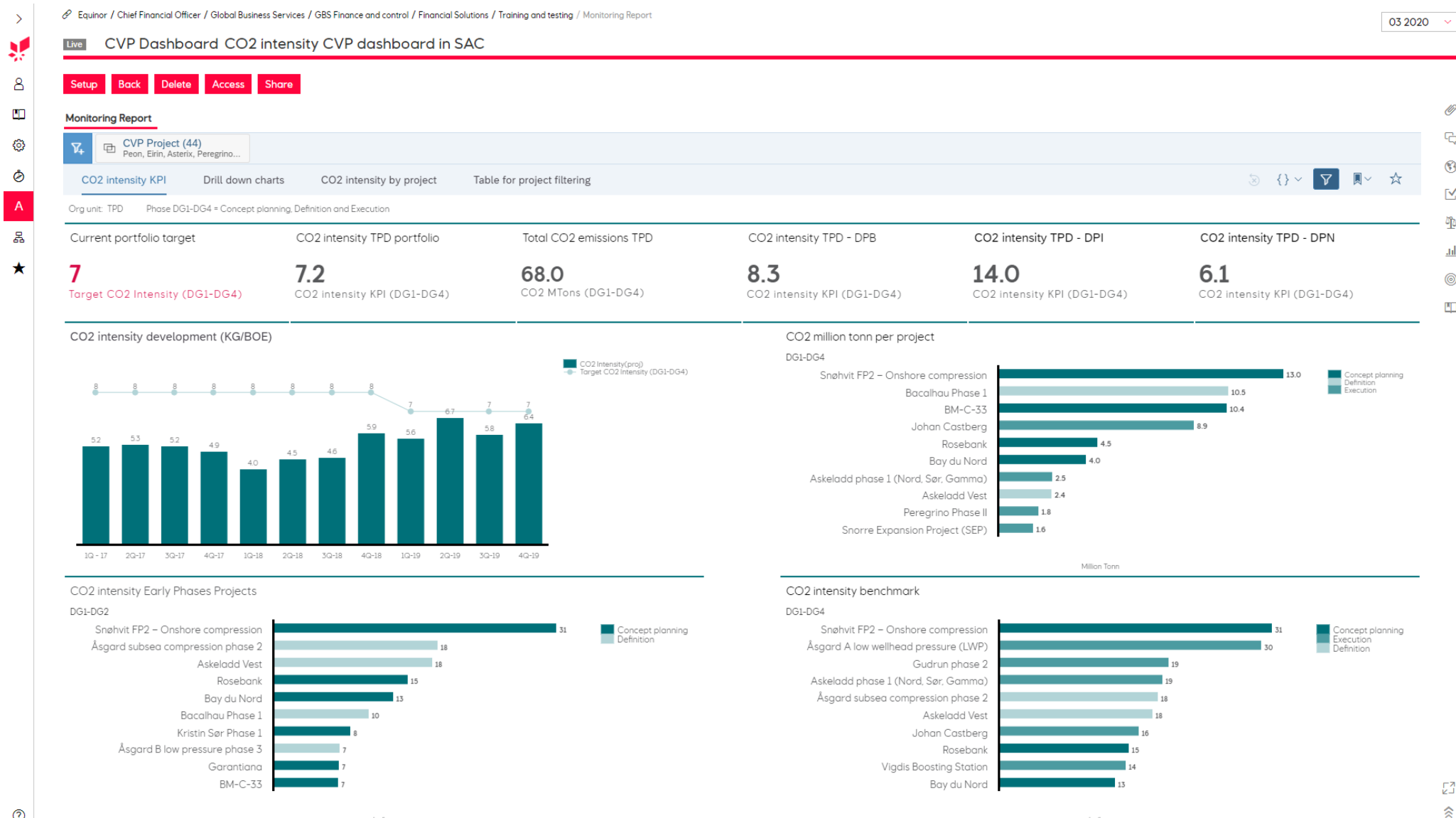
- Setting currency prompt value

```
https://equinor-asa.eu10.sapanalytics.cloud/sap/fpa/ui/app.html#;view_id=story;storyId=39F1BAF3A74C1C59F2122DE62ACDEAOE;  
v01Model=t.1:Ccg6kxwk59f7ojvwv4sy0bw8w0;v01Par=D_SUSD_CURR;v01Val=USD
```

- Scalability – Make it possible to set up same Story/Application for multiple units via prompt parameterization

- SAP Analytics Cloud URL API: Getting Started Guide [Link](#)
- Feature request (please vote for it): **243290 – URL generator for SAP Analytics Cloud URL API**

Demos - CO2 Intensity Dashboard (Irene)



Demos - CO2 Intensity Dashboard (Irene)

Live CVP Dashboard CO2 intensity CVP dashboard in SAC

Setup Back Delete Access Share

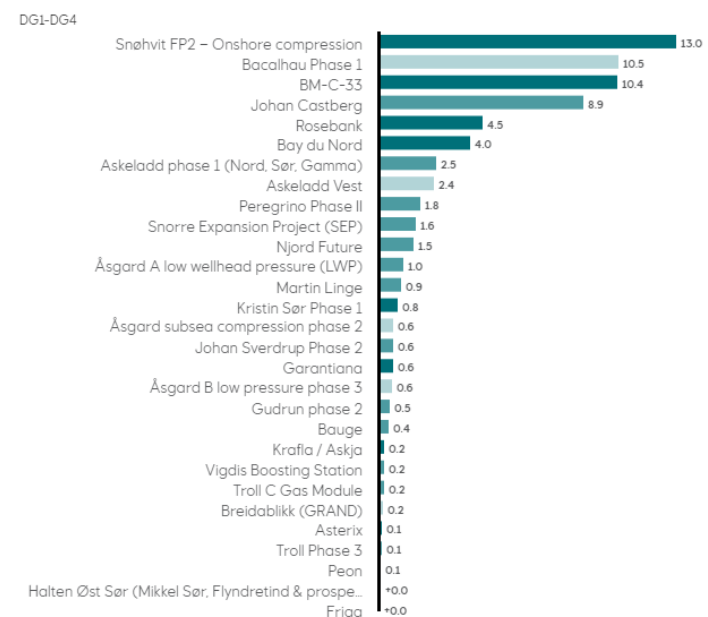
Monitoring Report

CVP Project (44)
Peon, Eirin, Asterix, Peregrino...

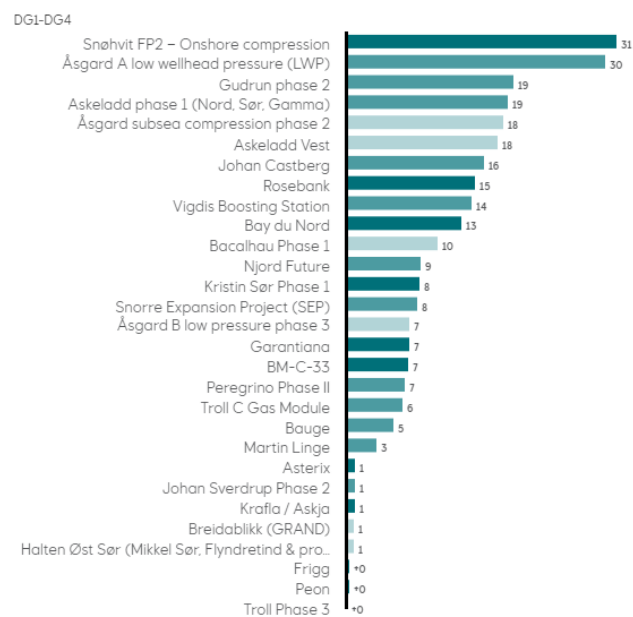
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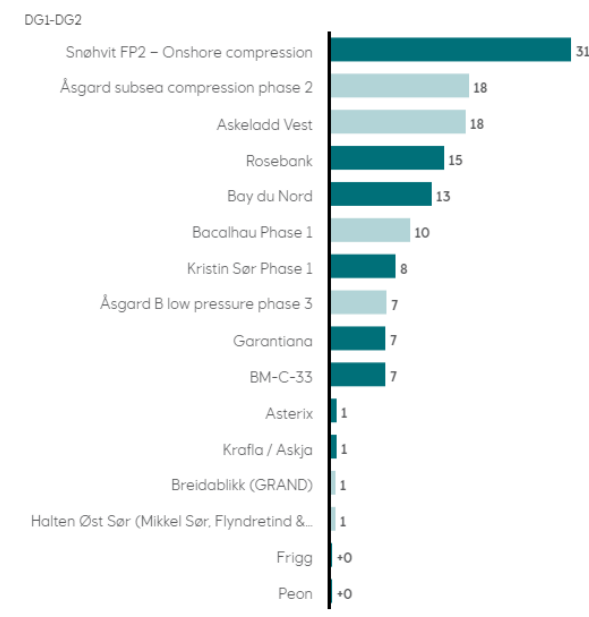
CO2 million tonn per project



CO2 intensity benchmark



CO2 intensity Early Phases Projects



Demos - CO2 Intensity Dashboard (Irene)

Live CVP Dashboard CO2 intensity CVP dashboard in SAC

Setup Back Delete Access Share

Monitoring Report

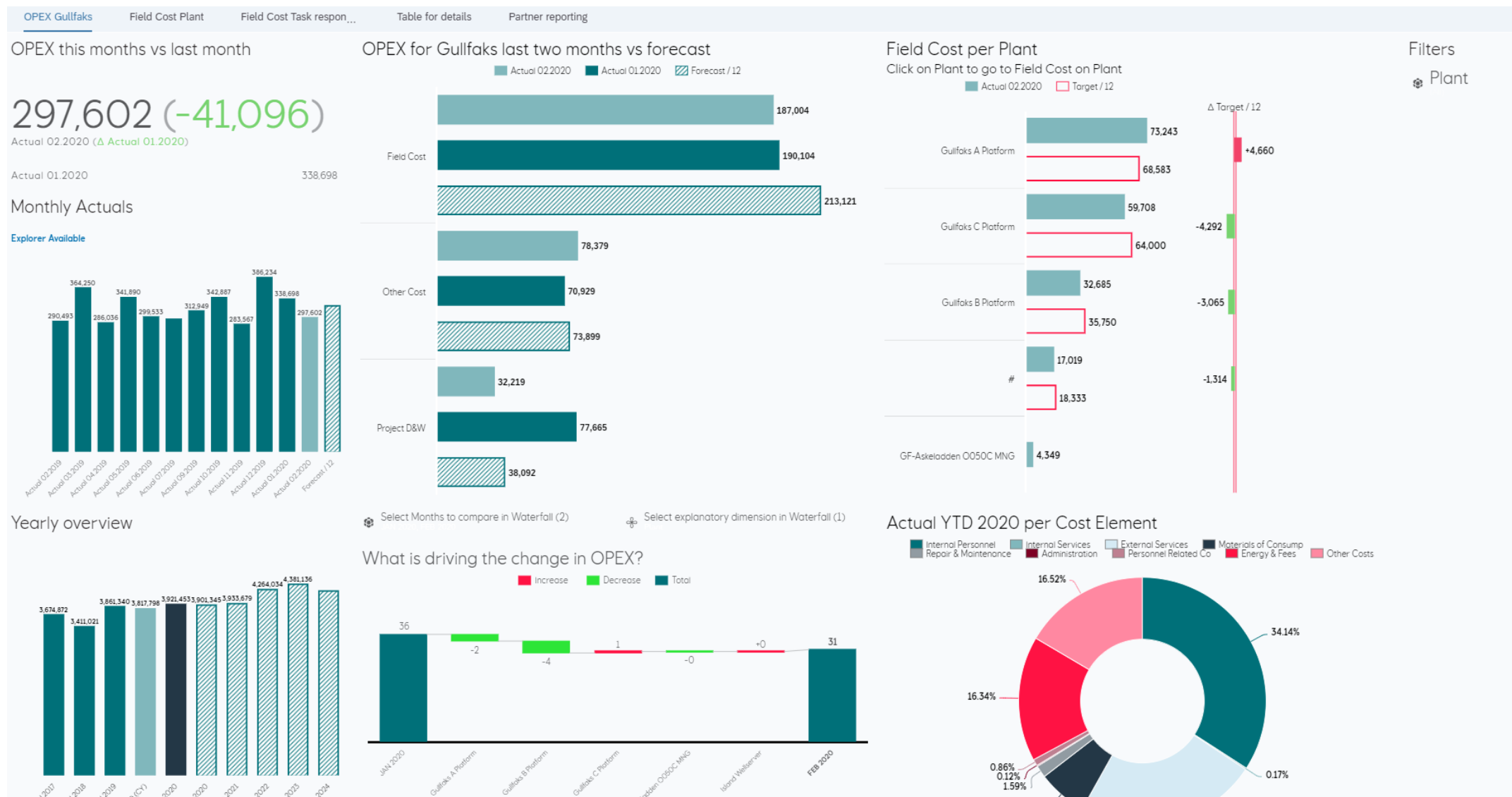
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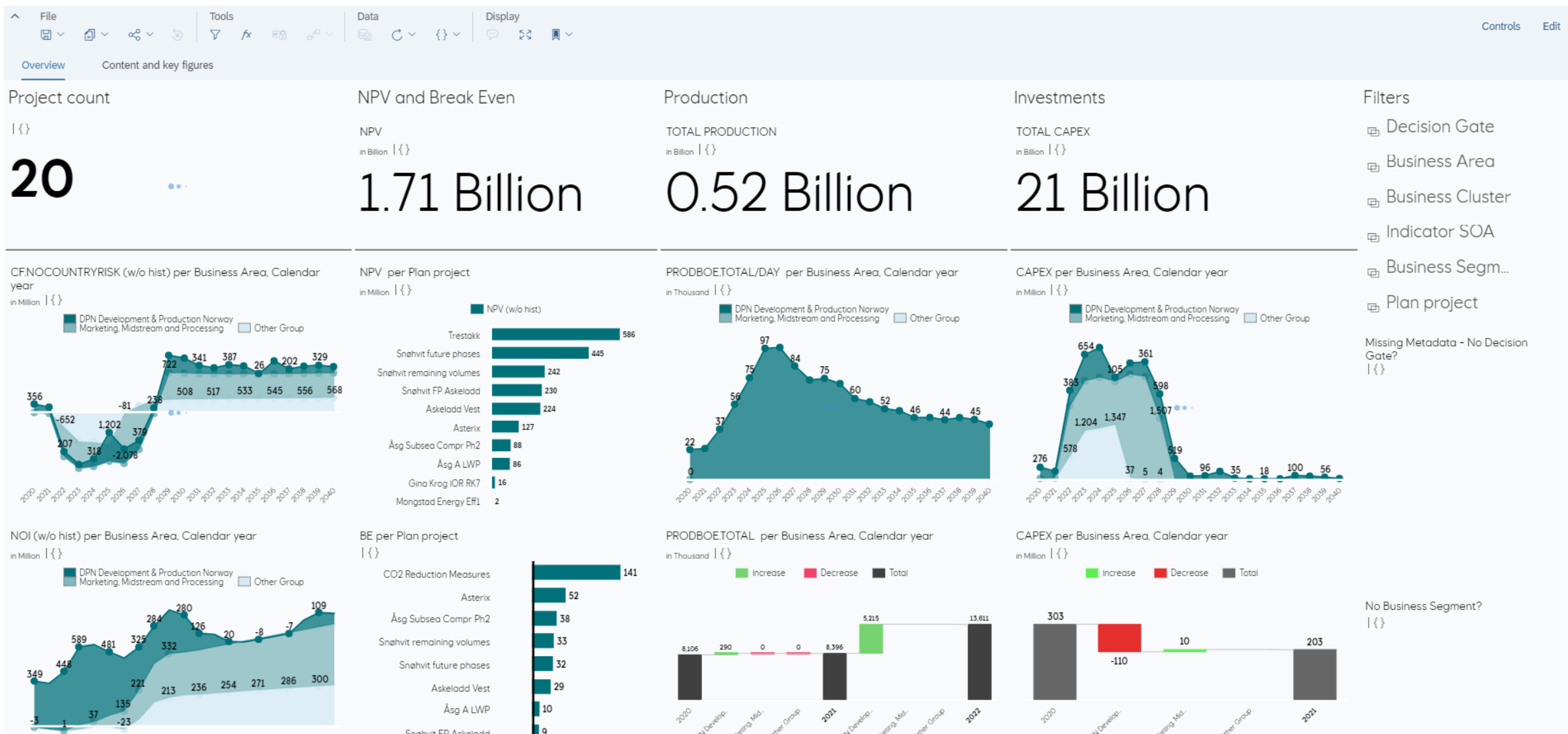
Table used to identify projects to be excluded. Exclude zero or negative balances in Story filter

CO2 Mill Ton total lifetime			
Frigg	2538	Concept planning	0.0100
Halten Øst Sør (Mikkel Sør, Flyndretind & prospects)	2448	Definition	0.0300
Peon	190	Concept planning	0.0500
Asterix	316	Concept planning	0.1100
Troll Phase 3	2369	Execution	0.1100
Breidablikk (GRAND)	2199	Definition	0.1500
Troll C Gas Module	2287	Execution	0.1900
Vigdis Boosting Station	2540	Execution	0.2000
Krafla / Askja	1152	Concept planning	0.2100
Bauge	1758	Execution	0.4000
Gudrun phase 2	2631	Execution	0.4600
Åsgard B low pressure phase 3	2128	Definition	0.5600
Garantiana	2531	Concept planning	0.5700
Johan Sverdrup Phase 2	2072	Execution	0.6000
Åsgard subsea compression phase 2	2124	Definition	0.6100
Kristin Sør Phase 1	2449	Concept planning	0.7700
Martin Linge	2640	Execution	0.9300
Åsgard A low wellhead pressure (LWP)	2127	Execution	1.0400
Njord Future	1746	Execution	1.5000
Snorre Expansion Project (SEP)	789	Execution	1.5800
Peregrino Phase II	593	Execution	1.8000
Askeladd Vest	2937	Definition	2.4000
Askeladd phase 1 (Nord, Sør, Gamma)	1991	Execution	2.4600
Bay du Nord	2228	Concept planning	3.9700

Demos – Gullfaks OPEX Story (Steinar)



Demos – Portfolio Dashboard (limited dataset) (Steinar)



Demos – Task Manager Dashboard (Sveinar)

