

Oslo, 10 November 2021

# Power BI Monitorering for Adopsjon

Kristian Arnesen

ae.no @Agder\_Energi @agderenergi

- Intro
- Power BI Reisen vår
- Demo
- Q&A

**Navn:** Kristian Arnesen

**Utdannelse:**

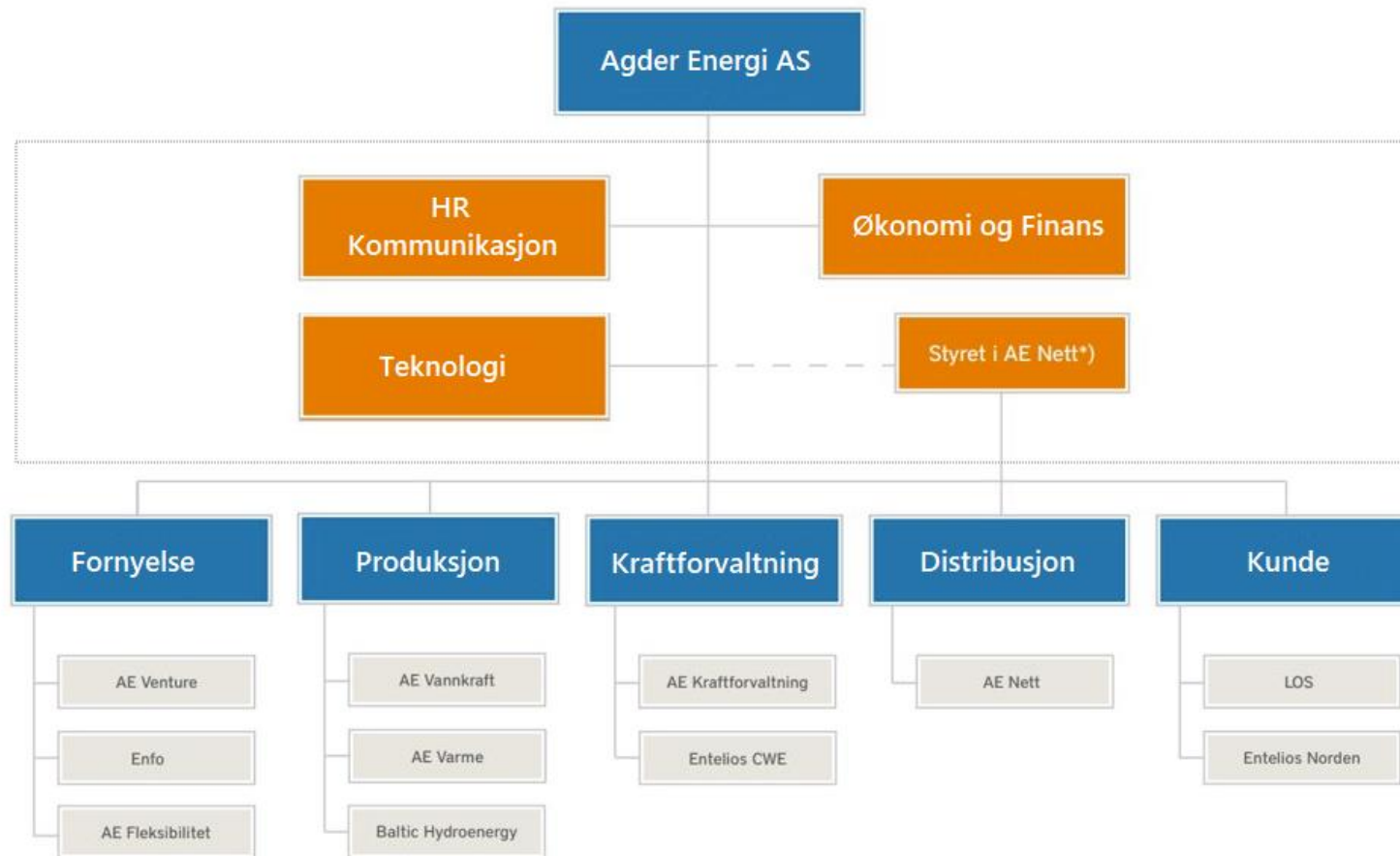
- MBA Marketing Management
- MBA International business
- MSC Informasjonssystemer og Teknologi

Jobbet med Power BI i Agder Energi i 5 år

Power BI ansvarlig/admin

Overhodet ikke en tradisjonell “utvikler”

- **Hovedkontor:** Kristiansand
- **Datterselskap:** 11
- **Ansatte:** Rundt 1000
- **Vannkraftverk:** 50 hel- og deleide
- **Produksjon:** 9 TWh
- **Nettlinjer:** 22,000 km



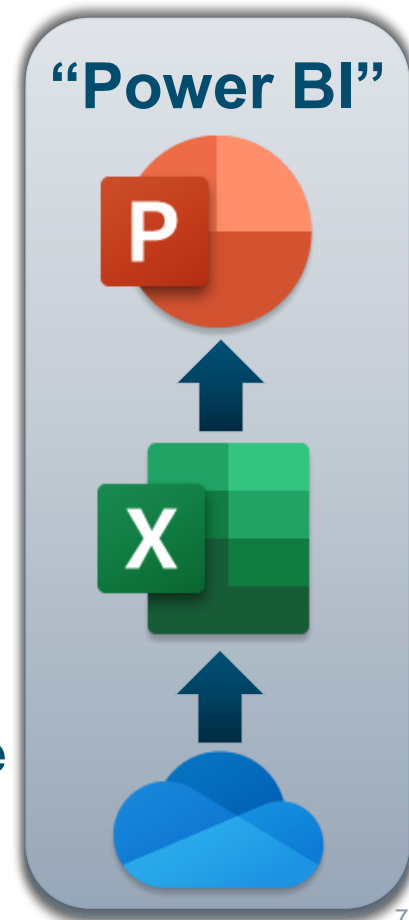
- Sentrale stabs- og fellestjenester
- Forretningsområder
- Datterselskap

\*) Agder Energi Nett AS styres gjennom et eget styre i henhold til kravene om selskapsmessig og funksjonelt skille

# Power BI reisen vår

# Begynnelsen på reisen

- AE Nett begynte med Power BI i 2016
- Hovedsakelig Direct Query
- Forenklet syn på Power BI
- Kjøpte inn E5 til hele konsernet
- Power BI Desktop og Service tilgjengelig for alle



# Power BI Platform Assessment - 2020

Overall Health			
At risk			

Security	Monitoring	Auditing	Compliance
Unknown <i>Makes it a potential High Risk</i>	Not used	Not used	None

Tenant Administration	Governance	Efficiency & Performance	Training Best Practices, Guidelines & Standards
None	None	High Risk	None

“ *Whose responsibility is this?* ”

“ *Without a corporate sponsor you are dead in the water* ”

“ *At the moment, your tenant is all unmanaged self-service* ”

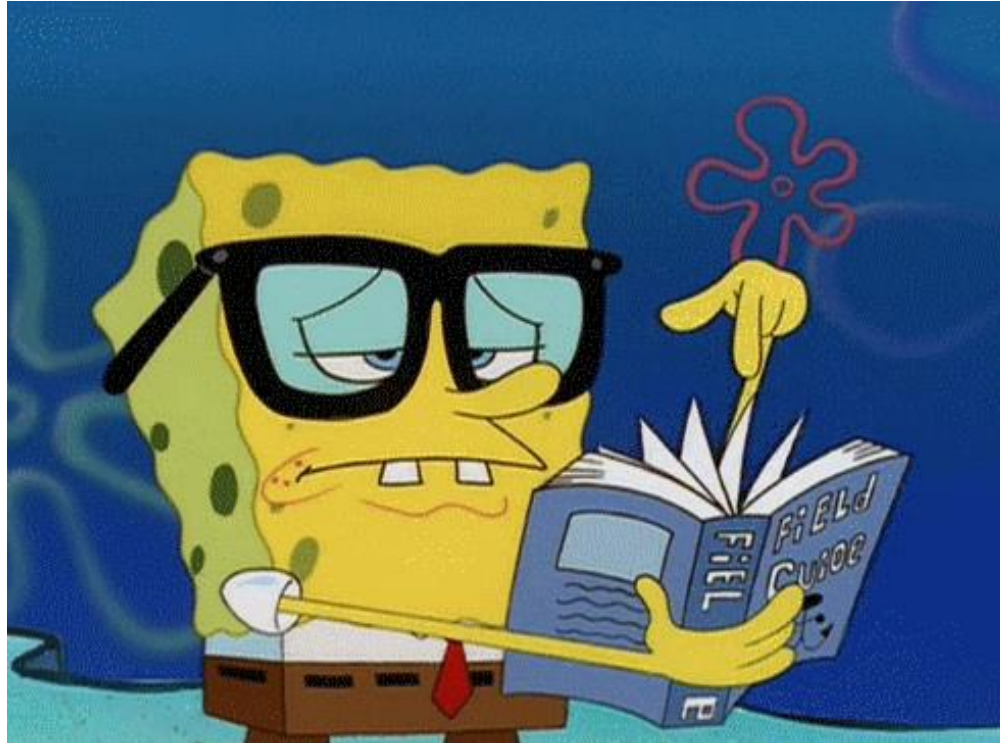
# Nåsituasjon: Power BI



# Nåsituasjon: Meg



# Neste dag: Søk etter corporate sponsor





**One  
Eternity  
Later**

# Første Win: Sikret corporate sponsor!



# Mål: Få kontroll på plattformen



Monitorering

Tilgangsstyring

Opplæring

Utvikling

Lisensiering

Tenant Settings

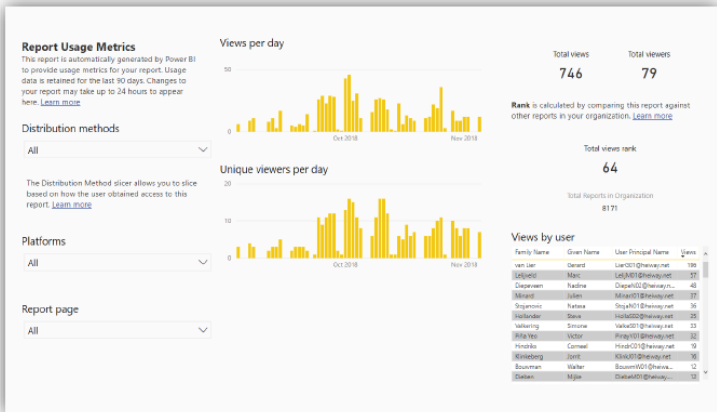
Opprydding



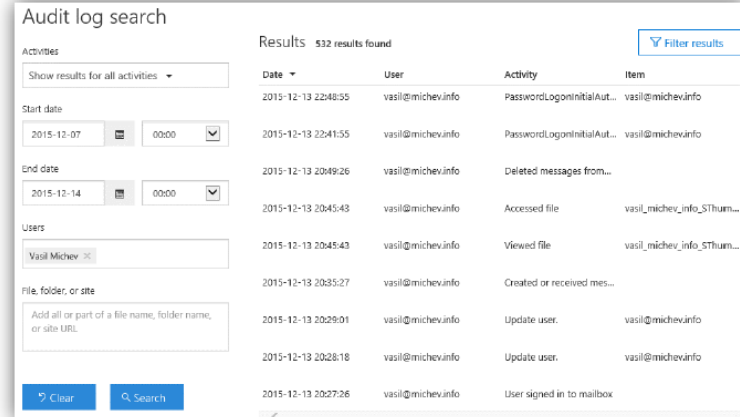
- Enormt omfang
- Manglende innsikt i Power BI bruk og innhold
- Identifisere tiltak
- Prioritere tiltak
- Måle fremgang
- Korrigere retning

# Løsning: Innsikt i bruk av Power BI





## Usage Metrics i Power BI



## O365 Audit Logs

```
# Get the report and dataset data for each workspace
foreach ($workspace in $workspaces) {
    $reports = Get-PowerBIReport -WorkspaceId $workspace.Id
    $datasets = Get-PowerBIDataset -WorkspaceId $workspace.Id

    $reports | Add-Member -NotePropertyName WorkspaceId -NotePropertyValue $workspace.Id
    $datasets | Add-Member -NotePropertyName WorkspaceId -NotePropertyValue $workspace.Id

    $workspaceReports += $reports
    $workspaceDatasets += $datasets
}

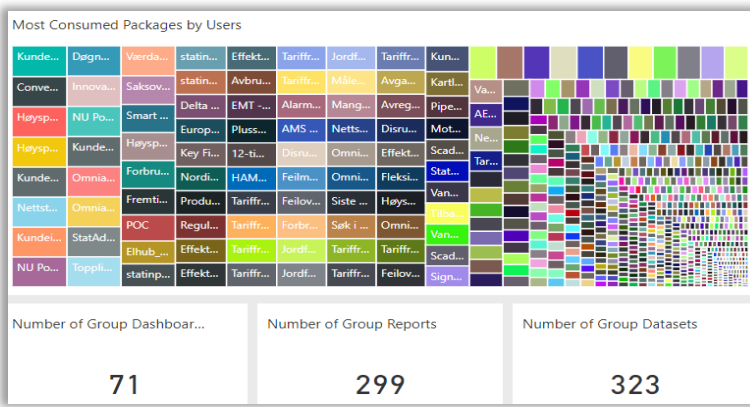
# Get the datasource data for each workspace dataset
foreach ($dataset in $workspaceDatasets) {
    $datasources = Get-PowerBIDatasource -DatasetId $dataset.Id -WorkspaceId $dataset.WorkspaceId

    $datasources | Add-Member -NotePropertyName DatasetId -NotePropertyValue $dataset.Id
    $datasources | Add-Member -NotePropertyName WorkspaceId -NotePropertyValue $dataset.WorkspaceId

    $datasetDatasources += $datasources
}

# Output the results for each type to CSV files
$workspaces | Export-CSV -Force -Path .\PowerBI_Workspaces.csv
```

## PowerShell Admin Cmdlets



## Power BI Admin Portal

## Hinder: Hvordan får man tilgang på data?



# Demo: Dataflows

# I'm Ready!

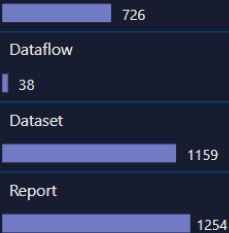


# Innsikt i Workspace Innhold

Last Refresh:  
12:57:52 CEST Thursday, 5 August 2021

## Workspaces

### Dashboard



### Workspace Name

All

### Workspace Type

All

### Upgrade State

All

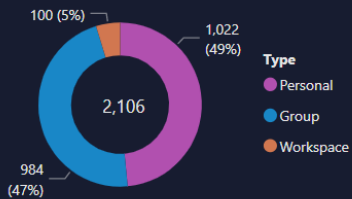
### Capacity

All

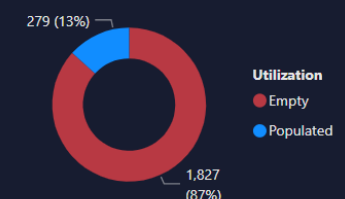
### Company

All

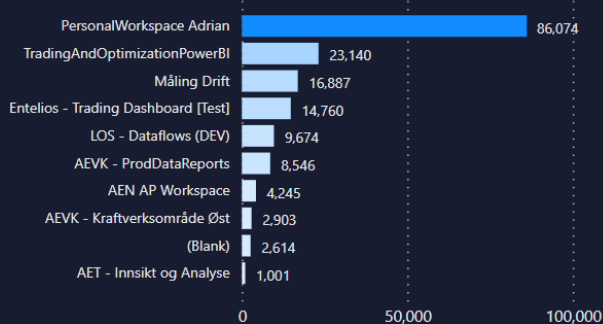
### Workspace Types



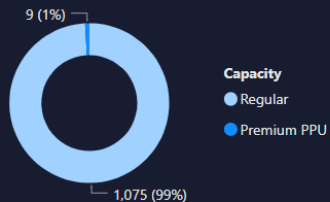
### Workspaces by Content Population



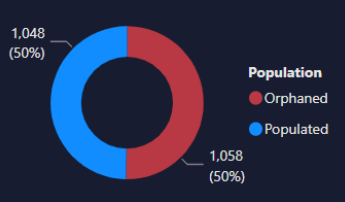
### Top 20 Workspaces by Activity



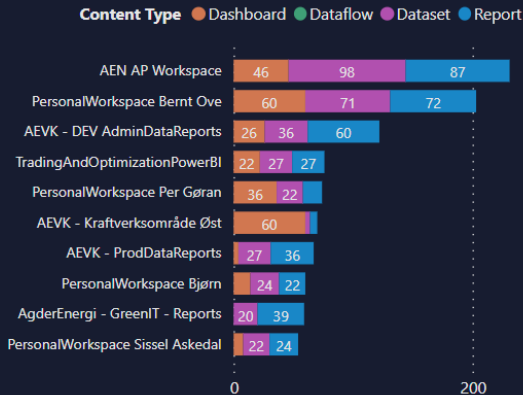
### Workspaces by Capacity Type



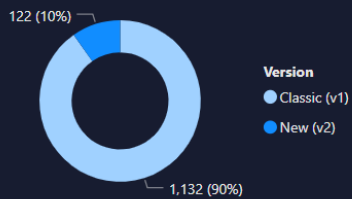
### Workspaces User Population



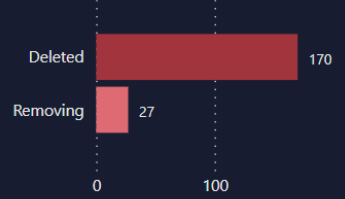
### Top 20 Workspaces by Total Content



### Workspaces by Upgrade State



### Workspace Deletion



# Første Governance Steg: Få Kontroll på Workspaces

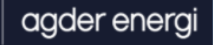
- Standardisere typen Workspace
- Bryte linken med Teams (classic workspace)
- Oppgradere og slette tomme Teams workspaces
- Utarbeide foreløpig navnestandard for workspaces
- Gradvis oppgradering/sletting av resterende workspaces
- Avklare konsern-eierskap og navn



# Evaluering av Workspaces

## Workspace Cleanup

Last Refresh: 13:16:23 CEST Friday, 6 August 2021



**Group**  
771

**Workspace**  
102

**Total Workspaces**  
873

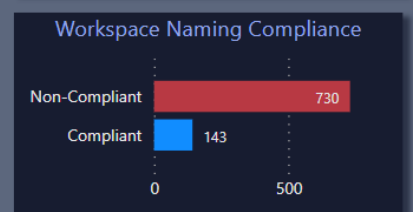
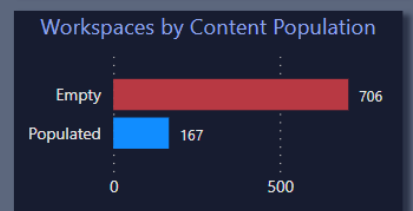
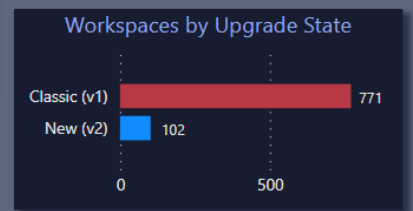
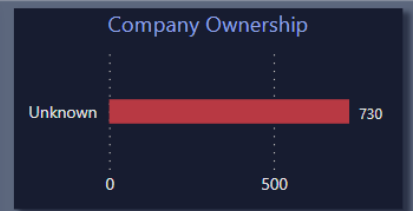
**Workspace Name**  
All

**Workspace Type**  
All

**Workspace State**  
Active

**Workspace Content**  
All

**Company**  
All



ID	Workspace Name	Score	Type	Version	Content	Company	URL
298c7756-e15a-4013-87da-84698565...	Regional Kraftsystemutredning for...	10	Group	Classic (v1)	Empty	Unknown	
2a148d0a-8142-4f5f-b0ff-8dcbcd16c...	Project imbalance	10	Group	Classic (v1)	Empty	Unknown	
2b13ebb6-c0ec-49a1-910b-3c8c2917...	New Trading & Origination	10	Group	Classic (v1)	Empty	Unknown	
2b55b3c7-f310-4be8-9f7d-64d425df...	Samhandling, informasjonsdeling ...	10	Group	Classic (v1)	Empty	Unknown	
2c180b2e-6c8e-4e92-b671-91144801...	Intune PC Enrollment	10	Group	Classic (v1)	Empty	Unknown	
2c1e708b-03a5-445c-9137-2527e6bc...	Verdikartlegging og kulturutvikling	10	Group	Classic (v1)	Empty	Unknown	
2d32219f-e248-4922-a2b5-79684f43f...	BI-rapporter PH	10	Group	Classic (v1)	Empty	Unknown	
2e313199-ba2a-4e97-8abd-d31ffc59...	Brokke transformatorer NTS	10	Group	Classic (v1)	Empty	Unknown	
2e756399-04e4-4768-af0a-1e9f63c5f...	AE Azure Integrations	10	Group	Classic (v1)	Empty	Unknown	
2e9b2fe4-8b64-4a8b-b8d3-c17ee70f...	Leverandroppfølging	10	Group	Classic (v1)	Empty	Unknown	
2eb83d74-ce06-458c-b3eb-c15bdd6...	AE-CTS Cloud migration	10	Group	Classic (v1)	Empty	Unknown	
308c7e0e-54c7-435e-9156-e0aa3e3d...	shp-Nett-Superbruker	10	Group	Classic (v1)	Empty	Unknown	
31798790-4d44-4033-87d4-2307f1fc...	Oppdatere prosedyre	10	Group	Classic (v1)	Empty	Unknown	
31a1047e-54b8-4882-8622-f81b2d0b...	shp-LOS-Innleid	10	Group	Classic (v1)	Empty	Unknown	
31e1c460-7a4c-4711-9ee4-7417b59e...	Selskapsmessig og funksjonelt skill...	10	Group	Classic (v1)	Empty	Unknown	
321840b7-03fe-4bd8-95e9-a5f722ea...	Finland	10	Group	Classic (v1)	Empty	Unknown	
324d48b5-ac5e-488e-94f7-419122cef...	Selvbetjeningsportalen - SMGR/A...	10	Group	Classic (v1)	Empty	Unknown	
33dd1f51-0bf3-4474-a0b8-6cda0058...	PowerBI Tools Shared2	10	Group	Classic (v1)	Empty	Unknown	
3416449d-76c5-4051-967a-70391385...	FoU faggruppe i AEN	10	Group	Classic (v1)	Empty	Unknown	
34313805-0a2d-442c-b9b8-c0c7d6e8...	Finndøla kraftverk - Skagerak Ener...	10	Group	Classic (v1)	Empty	Unknown	
3448bc81-135f-415b-954a-a0cf6181e...	DMR pilot - Drifts-og nødtalesam...	10	Group	Classic (v1)	Empty	Unknown	
34db5af0-a4b2-4670-9fd7-ff90bae51...	ISH/Origination - T&O	10	Group	Classic (v1)	Empty	Unknown	
3589fe6c-fb09-46dc-84c4-8c5a652df...	Fremtidens nødsamband	10	Group	Classic (v1)	Empty	Unknown	
360bd922-7f12-4b2a-b82c-7ed29806...	Strategikart og KPI-er for AEN	10	Group	Classic (v1)	Empty	Unknown	
36a231fa-9c5e-4dd4-8da7-ee1a9ed5...	Brady ETRM Prosjekt Forvaltning	10	Group	Classic (v1)	Empty	Unknown	

## Compliance Overview

Last Refresh: 14:19:59 CEST Thursday, 5 August 2021

Group

925

---

Personal

1,022

---

Workspace

110

Workspace Name

All

---

Workspace Type

All

---

Upgrade State

All

---

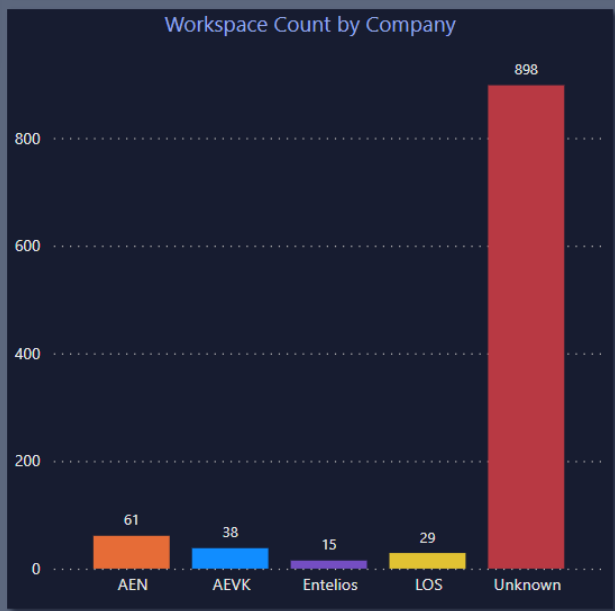
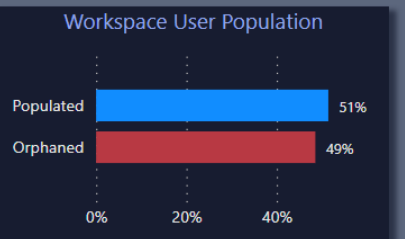
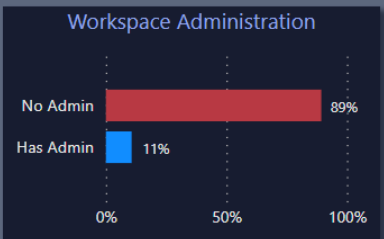
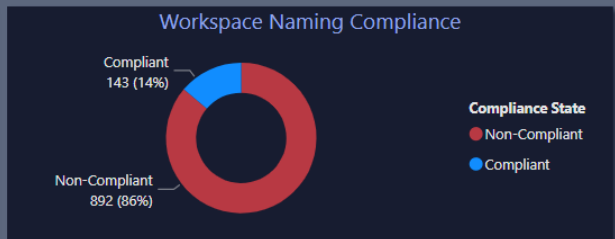
Naming Compliance

All

---

Company

All



### Workspace Naming Compliance

Company	Compliance	Workspace Name	Population	Link	ID
AEN	Compliant	AEN - Droneprosjekt	Orphaned	<a href="#">Link</a>	b6b5...
AEN	Compliant	AEN - Evaluering av "Nedsnødd 2018"	Orphaned	<a href="#">Link</a>	5fb4...
AEN	Compliant	AEN - AMU / BU	Orphaned	<a href="#">Link</a>	b684...
AEN	Compliant	AEN - Arkivering og dokumentasjon	Orphaned	<a href="#">Link</a>	ebf9...
AEN	Compliant	AEN - Dataflows Test	Orphaned	<a href="#">Link</a>	90A0...
AEN	Compliant	AEN - Eksternt sikkerhetsforum med leverandører	Orphaned	<a href="#">Link</a>	3719...
AEN	Compliant	AEN - EnoroCX - Datakvalitet	Orphaned	<a href="#">Link</a>	f79b...
AEN	Compliant	AEN - Ervervelse av rettigheter	Orphaned	<a href="#">Link</a>	3b18...
AEN	Compliant	AEN - Forprosjekt «Ny nettside AENETT.no»	Orphaned	<a href="#">Link</a>	94b0...
AEN	Compliant	AEN - HMS og Kvalitets revisjoner av leverandører	Orphaned	<a href="#">Link</a>	5a6f...
AEN	Compliant	AEN - Hvordan styrke fokus på HMS-rapportering i selskap...	Orphaned	<a href="#">Link</a>	188b...
AEN	Compliant	AEN - Internt Sikkerhetsforum	Orphaned	<a href="#">Link</a>	8001...
AEN	Compliant	AEN - ND Lyngdal tavlemøte	Orphaned	<a href="#">Link</a>	6db3...
AEN	Compliant	AEN - NETBAS System	Orphaned	<a href="#">Link</a>	c01e...
AEN	Compliant	AEN - Netbas Vedlikehold - system	Orphaned	<a href="#">Link</a>	fcd5...
AEN	Compliant	AEN - NetBas Vedlikehold Trafostasjoner	Orphaned	<a href="#">Link</a>	5e61...
AEN	Compliant	AEN - NetLIN	Orphaned	<a href="#">Link</a>	c2d9...

# Demo: Power BI løsning

- Corporate sponsor er kritisk for suksessful implementasjon
- Monitorering er utrolig viktig for å måle fremgang
- Ikke stol blindt på standard governance rammeverk
- Skap en løpende “ideal state” for bruk av Power BI
- Bruk monitorering til å skape engasjement med brukerne dine

# Kontaktinformasjon

## LinkedIn:

<https://www.linkedin.com/in/karnesen/>

## Epost:

Agder Energi: Kristian.Arnese@ae.no

Privat: arnese@ gmail.com



agder energi  
God kraft. Godt klima.