TGS-NOPEC Geophysical Company
S/4HANA Greenfield Implementation

SBN Conference, 24.10.2019





About Us



- Line Molberg
 - System and Business Process Controller in TGS-NOPEC
 - Role in the project: Solution architect and process owner of sales



- Håkon Bekkestad
 - Solution architect and FI/CO consultant in EY Skye
 - Role in the project: Solution architect and process owner of project accounting





Agenda



- Intro EY Skye
- Intro TGS-NOPEC Geophysical Company
- The Project
 - Scope and Timeline
 - Challenges
- The Solution
- Experiences Going Live with SAP S/4HANA
- TGS-NOPEC Going Forward



EY Skye





Established in

2010

IBM Gold Business Partner

2015 IBM business partner of the year

Achievements

2014 Gazelle winner

IBM

NOK 195 mill

turnover in 2017

SAP VAR Partner & SAP Service Partner



100 employees in Norway

40 employees in Sweden

12 nationalities

SAP S/4 HANA

Full-stack SAP provider

IBM Maximo

2018 SAP EMEA North Partner Excellence Award – category new partner

Watson, BI, Mobility, IoT, Machine Learning, UX, AI Global SAP coverage 50+countries

EY Skye are now part of EY Globally



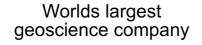








TGS-NOPEC Geophysical Company



Listed on Oslo Stock Exchange

Asset light – multi client business model







Main office in Oslo and Houston

~600 employees plus 200-1000 contracted fieldworkers

Market Cap: ~\$3.0 billion



TGS-NOPEC Geophysical Company



- The new ERP system was supposed to replace:
 - Microsoft Dynamics Navision 2009
 - Not supported per 01.01.2019
 - Manual and time-consuming tasks due to inherent limitations and challenges with the current systems
 - Heavy use of Excel
 - Hyland OnBase
 - TGS-Specific Order Systems
- The new ERP system should cover the following business processes and associated modules:
 - Client contract administration (sales orders)
 - Intercompany
 - Financial library (project) management
 - General ledger
 - Accounts receivable
 - Accounts payable: Incoming invoice and payment
 - Fixed assets
 - Budgeting & Reporting
- SAP S/4HANA was chosen as the new ERP solution



The Project – Scope and Timeline



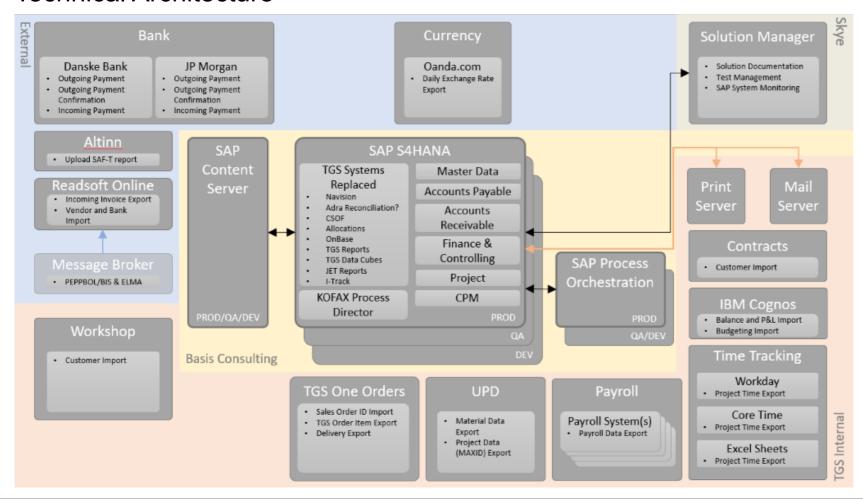
- SAP S/4HANA 1709 On-Premise version
 - Sales & Distribution (SD)
 - Project System (PS)
 - Commercial Project Management (CPM) incl. Analysis of Office
 - Finance & Controlling (FI/CO) incl. Kofax Workflow
- SAP Process Orchestration (PO)
 - Cloud version does not support connecting to other local on-premise systems
 - No limitations on PO on-premise connecting to other systems
- SAP Activate Methodology
- SAP Best Practices US implemented



The Project – Scope and Timeline



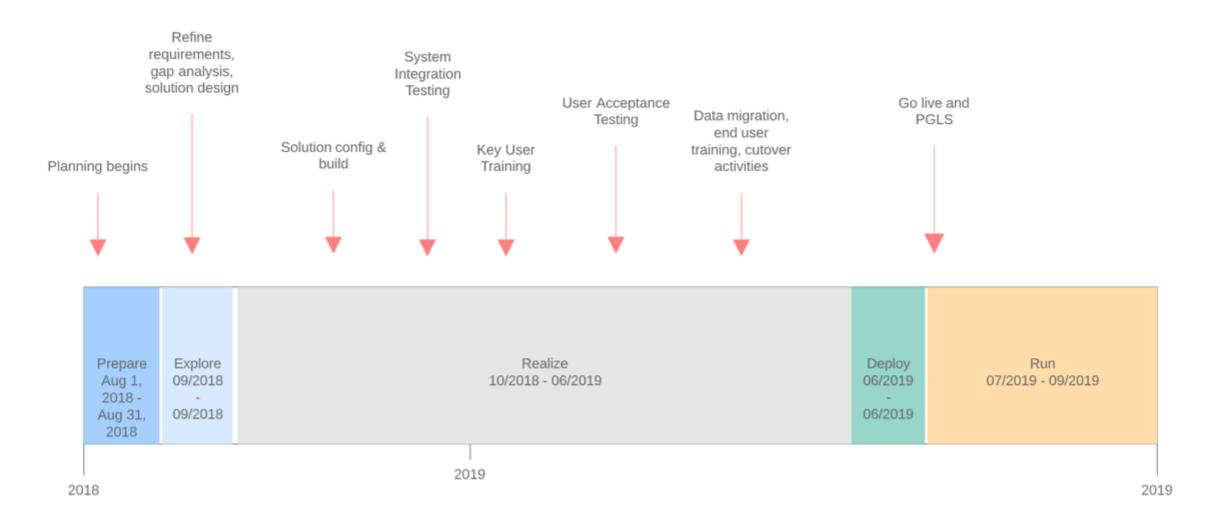
Technical Architecture





The Project – Scope and Timeline







The Project – Challenges



EY Skye challenges

- To understand the seismic terms and business model and to tailor SAP to the processes
- TGS entities can sell each other's data
 - Eight different countries, including Brazil, gave complex intercompany and sales tax setup

TGS-NOPEC challenges

- To understand and get a hold of the detail level needed for configuring the new solution
 - Automated processes
- Underestimated the complexity of change management and testing the solution

General challenges

- Project phase timelines
 - Very high-level design specification
 - Led to moving target issues
- Migration
 - Challenging and time-consuming fetching data from legacy systems
 - Change of accounting logic led to mismatch in project accounting





- 21 company codes in 8 countries
- 21 sales organizations
- 24 plants
- ► 1554 projects
- 2 ledgers
 - Local GAAP
 - IFRS
- 2 chart of accounts
 - Group CoA
 - Operational CoA
- 3 currency types
 - Document currency
 - Local currency
 - Group currency (USD)







- Fiori Launchpad
 - Web based user interface
 - All transactions work as apps
 - Divide between GUI apps, Fiori apps and Design Studio apps

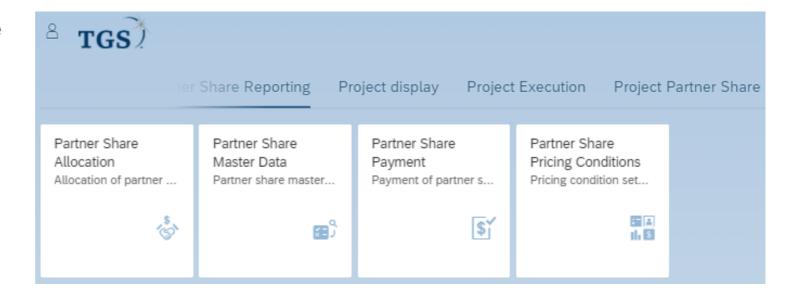








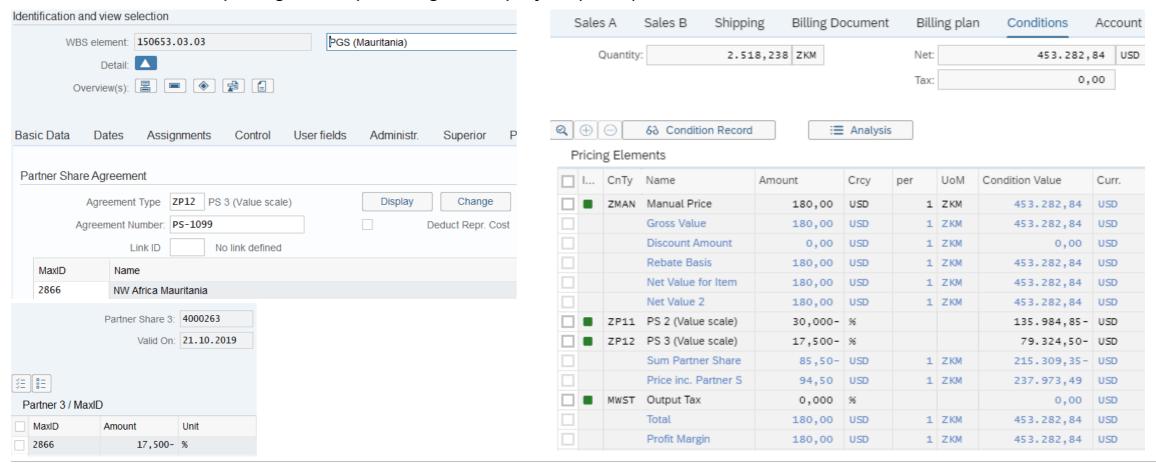
- SAP Standard where possible
- Custom developments
 - Partner share Agreements
 - Intercompany Selling agent
 - Project Accounting Reporting







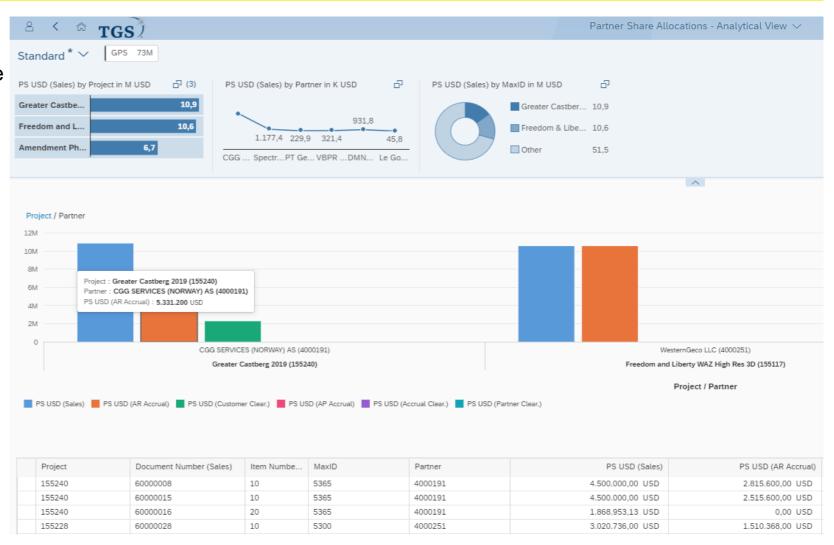
- Partner Share Agreements
 - SAP standard pricing technique assigned to project (WBS) and sales order







- Partner Share Cockpit
 - Custom made reports done with CDS views
 - PS Allocations
 - PS Payments
 - PS Master Data
 - PS Pricing Conditions



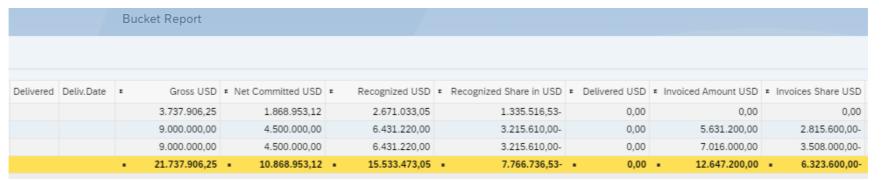




Project Accounting Reporting

Bucket Report

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Sales Org.	Project def.	Project description	WBS Element	Segment	Profit Center	% of compl	Sales doc. type	. Sales Document	Item	Customer Num	Customer Name	Acct asgnmt grp	
1100	155240	Greater Castberg 2019	155240.01	350	1100350	71,458	ZOR	60000016	20	5009905	Petoro AS	EP	
1100	155240	Greater Castberg 2019	155240.01	350	1100350	71,458	ZOR	60000008	10	5011963	Equinor Energy AS	EP	
1100	155240	Greater Castberg 2019	155240.01	350	1100350	71,458	ZOR	60000015	10	5012758	Vår Energi AS	EP	



Sales Amortization Report







- Commercial Project Management (CPM)
 - Included in S/4HANA (requires own license fee)
 - Fetching data from PS-, MM-, SD- and FICO modules
 - Full control of your project's costs and revenues
 - Plan and actual
 - Integrated with Analysis for Office for project planning

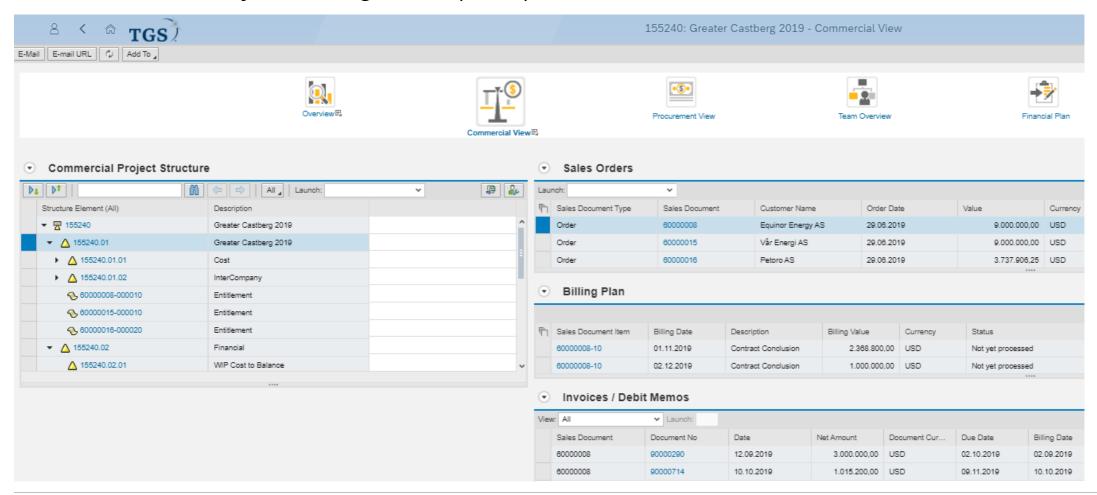








Commercial Project Management (CPM)





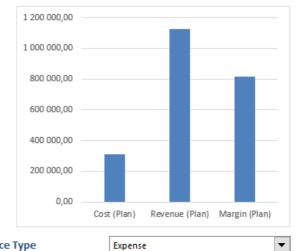


Commercial Project Management (CPM)



112619.01.01.02.03 Structure Element

		Cost (Plan)	Revenue (Plan)	Margin (Plan)
Description	Structure Element	\$	\$	\$
[-] Norway FMB Updates 2019		310 000,00	1 125 274,40	815 274,40
Norway FMB Updates 2019	112619			
[-] Norway FMB Updates 2019		310 000,00	1 125 274,40	815 274,40
Norway FMB Updates 2019	112619.01	0,00	1 125 274,40	1 125 274,40
[-] Cost		310 000,00	0,00	-310 000,00
Cost	112619.01.01			
[+] Acquisition				
[-] Processing costs		310 000,00	0,00	-310 000,00
Processing costs	112619.01.01.02			
Processing External	112619.01.01.02.01			
Processing Internal	112619.01.01.02.02			
Interpretation	112619.01.01.02.03	310 000,00	0,00	-310 000,00
Data Uploading	112619.01.01.02.04			



Expense

Resource Ty	me

		Key Figures	[+] Quantity	[+] Cost Rate	[+] Cost (Transaction)	[-] Cost (Plan)	JAN 2019
Resource	UoM	Transaction Currency			\$	\$	\$
WIP Project Cost	Not assigned	US Dollar	0	0,000	310 000,00	310 000,00	310 000,00





- Results Analysis and Project Settlement
 - Planned revenue updated from approved sales orders
 - Planned cost updated from financial plan in CPM
 - Recognized revenue and POC cost calculated through the results analysis
 - Revenue divided based on several GL accounts reflecting project phases and partner share

8 < ७ TGS) Projects - Actuals ∨												
Standard V												
Search Q	Pause 《											
DIMENSIONS	COLUMNS	Project Definition ▼=	Project Definition ₹4	WBS Element =	WBS Element ▼=	G/L Account ₹≏	G/L Account =	Amt in CO Area Crcy 🖘	Amt in Local Crcy ==			
✓ Measures	Measures	155244 Utsira (Omega OBN:	Utsira (Omega OBN18)	> 155244.01	Utsira (Omega OBN18)	Prepaid Project Expenditure	161130	\$ 15.978,00	142.762,69 NOK			
	measures					Unbilled Revenue	182100	\$ -1.245.720,00	-10.941.611,19 NOK			
✓ Amt in CO Area						Unbilled Partner Share	182150	\$ 604.174,20	5.039.741,44 NOK			
✓ Amt in Local Crcy						Deferred Partner Share	332120	\$ 17.401,80	552.485,28 NOK			
Amt in Trans. Crcy						Deferred Revenue	345100	\$ -35.880,00	-588.753,18 NOK			
Quantity						LP Invoiced Revenue	411200	\$ -1.281.600,00	-11.530.364,37 NOK			
Bus. Trans. Type						LP Excess of Billing	411280	\$ 1.245.720,00	10.941.611,19 NOK			
Business Area						LP Deferred Revenue	411290	\$ 35.880,00	588.753,18 NOK			
	ROWS					LP Revenue Share Invoiced	413250	\$ 621.576,00	5.592.226,72 NOK			
Company Code						LP Revenue Share Excess of Billing	413280	\$ -17.401,80	-552.485,28 NOK			
Deb/Cred Ind CO	Project Definition					LP Revenue Share Deferred Revenue	413290	\$ -604.174,20	-5.039.741,44 NOK			
Doc. Item No.	WBS Element					WIP Project Costs	521100	\$ 15.978,00	142.762,69 NOK			
Document No.	G/L Account					Total		\$ -628.068,00	-5.652.612,27 NOK			
Fiscal year		Grand Total		\$ -628.068,00	-5.652.612,27 NOK							



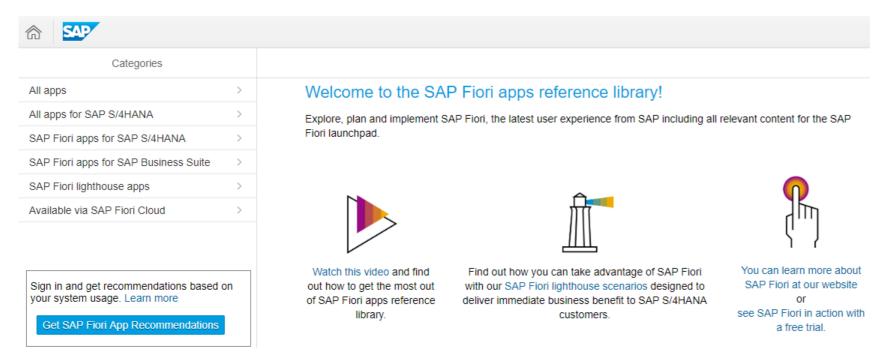


- Calm cut-over weekend and first couple of weeks
- Then it became more challenging than expected
- Difficult migration scope due to change of accounting logic
 - Issues related to period-end closing of project results analysis
- Now starting to see stable operations within TGS after some hectic months





- Fiori Launchpad
 - Set aside time for app service activations
 - Get to know the different apps and the opportunities with them
 - Use time analyzing SAP Fiori Library to choose the best apps for your processes

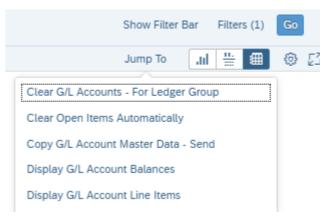


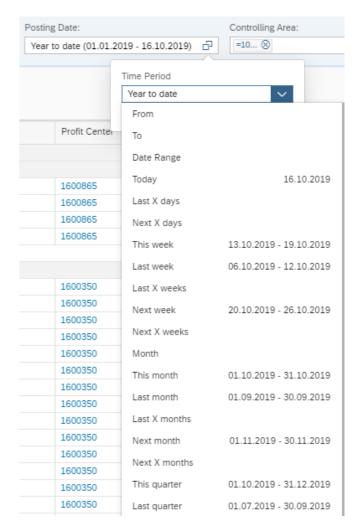




- Fiori Launchpad Experiences with new User Interface
 - Positive
 - Flexible and good-looking apps with many opportunities across modules
 - Good mix of graphical management reports and more detailed reporting
 - Direct link to similar apps
 - Elegant drag and drop functionality (apps menu, report attributes, attachments)
 - Easy adding GUI apps if necessary



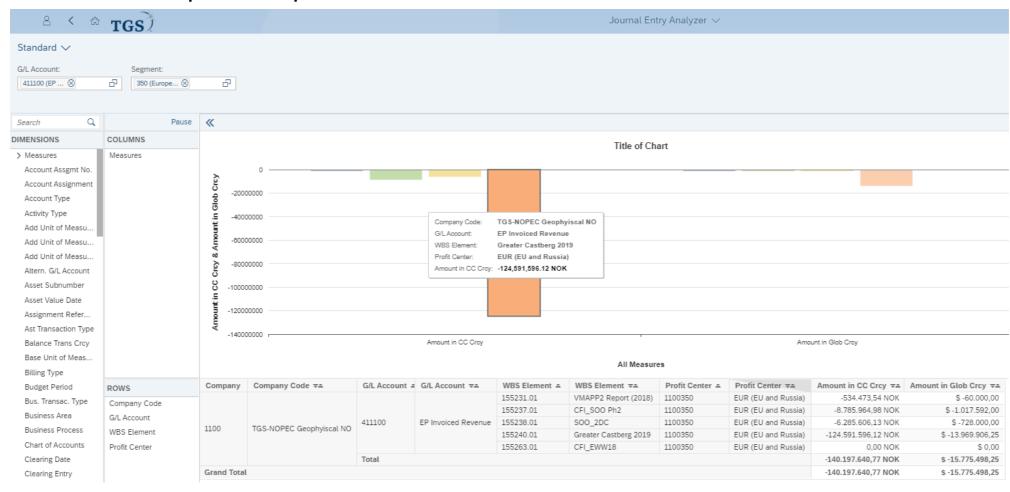








Fiori Launchpad – Experiences with new User Interface







- Fiori Launchpad Experiences with new User Interface
 - Potential Improvements
 - Have experienced less functionality in some apps
 - Seems to be a bit unfinished
 - Some apps more time-consuming than using the GUI transactions
 - Some lack of functionality using web interface
 - Easy to filter and sort, but more difficult to copy/paste specific data
 - Tips
 - Use time analyzing the new apps contra the GUI transactions
 - Most of the apps are better, but some might be more time-consuming or less flexible



TGS-NOPEC Going Forward



- TGS-NOPEC bought Spectrum this spring for an acquisition value of 3,7 billion NOK
 - Spectrum has the world's largest 2D data library
 - Roll-out project started
 - 11 new legal entities in 7 countries
- Expansion of TGS-NOPEC with 3 new legal entities



- Phase 2
 - Postponed functionality
 - New functionality
- S/4HANA Upgrade to 1909



Thank You!



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