

ETAP's Database Management Enhanced Through Migration to ProSource

Imen BOUYAHYA
Subsurface Data manager
ETAP



What's Next?

SIS Global Forum 2017

September 13-15

Le Palais des Congrès de Paris

Schlumberger

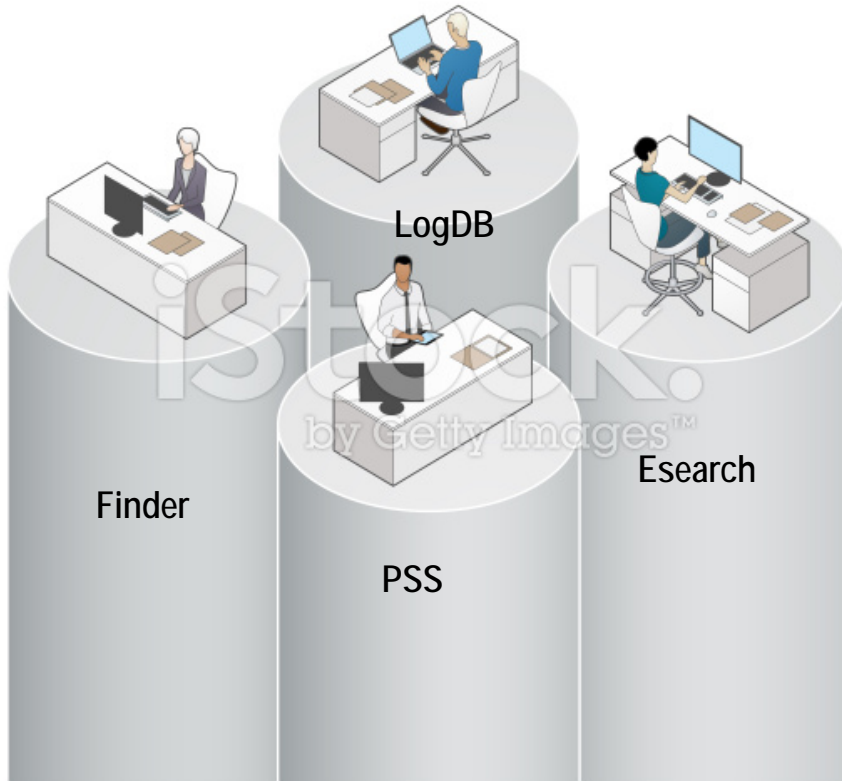
Agenda

- ◆ Introduction
- ◆ Situation Prior to Migration
- ◆ Migration To ProSource
- ◆ Migration Quick Wins
- ◆ Database Project-Status
- ◆ What's Next-Way Forward

ETAP's Database..History



Silos Environment



Challenges

People

Teams working in Silos
Lack of Collaboration
Different visions and strategies
Lack of right talent



Process

Lack of defined workflows
Separate Databases
Absence of Multi level
Data validation and QC

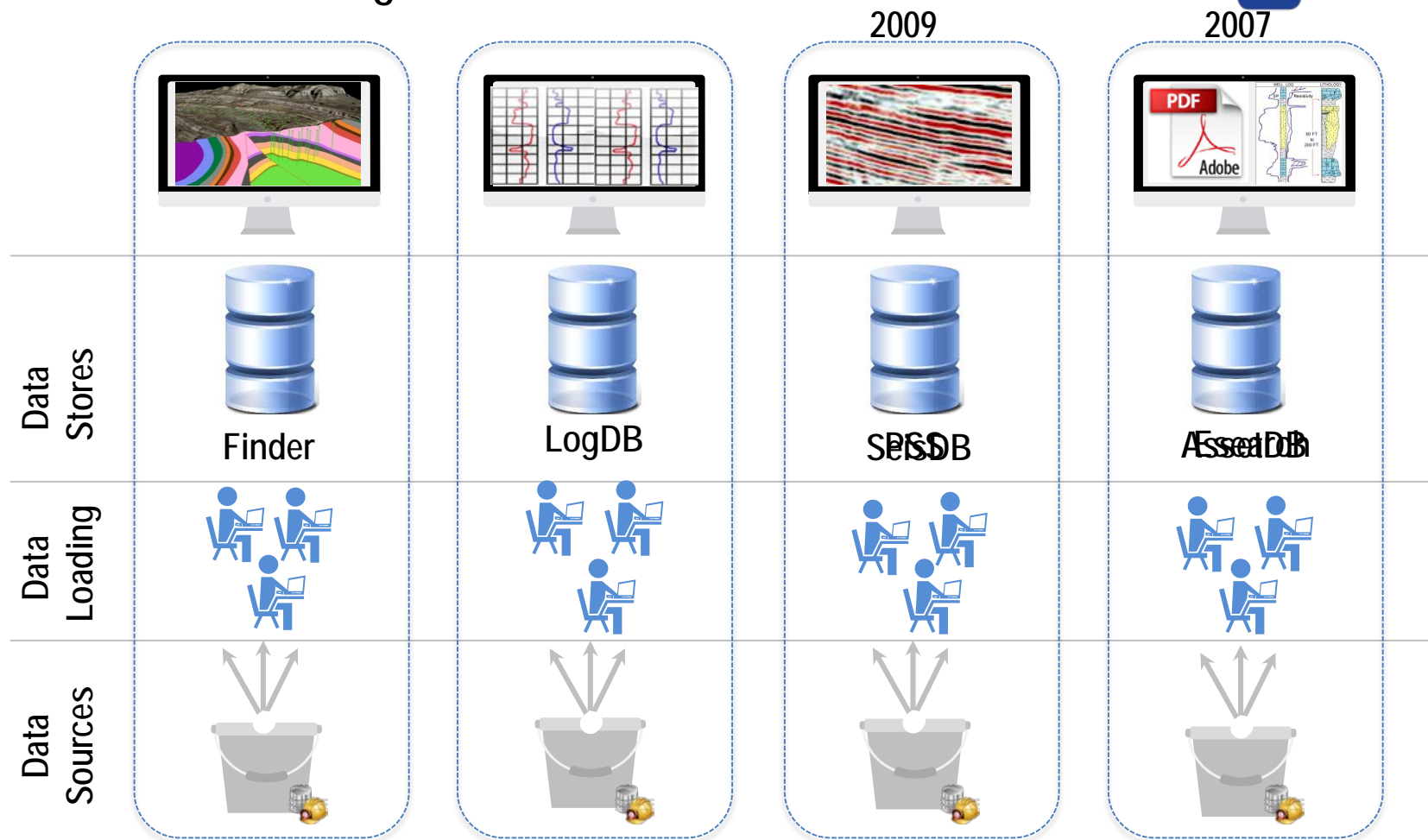
Data

Fragmentation
Duplication
Inconsistency
No Data Standards
No Real Data Management

IT

Different Data Stores
Multiple Access points
Different O.S and Oracle versions (Finder Solaris)
Migration Prerequisites
Obsolete Architecture

Architecture Prior to Migration



Finder

- Cultural, well and geology data
- Mature solution difficult to manage
- Inconsistency of data
- Projects statuses not up-to-date
- Not optimum Data loading workflows

LogDB

- Log data
- Mature solution, difficult to manage
- Some Users not trained
- Limited formats
- Limited Data Access
- Basic viewers

Migration to ProSource Solution

Project Objectives

- Migrate ETAP's E&P Data from Finder and LogDB to an integrated IM solution (ProSource 2013.4)
- Deploy ProSource Front Office and leverage Data Management practices
- Maximize the ROI by enabling and enhancing the database use

Project Timeline



ProSource Upgrade and Migration

Solaris 10



- PS 2009.1.3 (PSS)
- Seabed 2009.1
- Oracle Server 9.2.0.4
- FlexNet 11.6
- ArcSDE 9.3 SP1
- JRE Java 1.6

Linux RHE6.2



- PS 2013.4 (PSS, PSE, PSL)
- Seabed 2013.1
- Oracle Server 11.2.0.3
- FlexNet 11.8
- ArcSDE 10.1 SP1
- JRE Java 1.6

01

Migrate ProSource Seismic
2009.3/Solaris to ProSource
2009.1/Linux

02

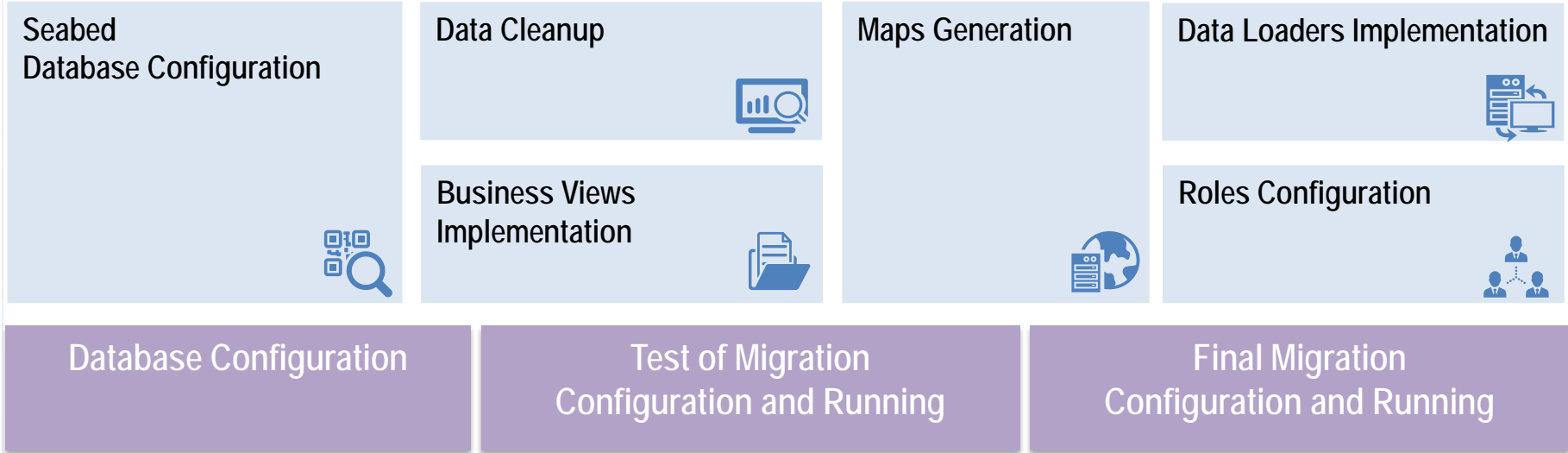
Upgrade ProSource
from 2009.3 to 2012.5

03

Upgrade ProSource
from 2012.5 to 2013.4

Finder and LogDB Migration

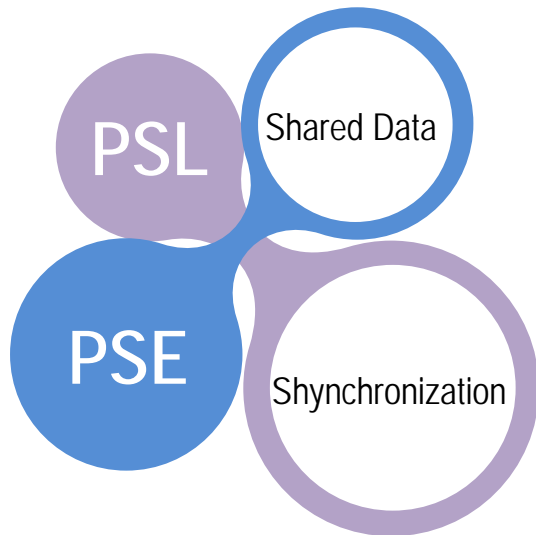
Finder



LogDB



ProSource Enterprise and Logs Merge



Fields that exist in both projects (PSL has names and PSE has codes)			Fields that exist in PSE not in PSE	PSL: All fields
PSL_FIELD_NAME	PSE_FIELD_NAME	PSE_FIELD_NAME	PSL_FIELD_NAME	PSE_FIELD_ALIAS
1	JAMILGAR	JAM	TEST	JAM
2	ANAGUJD	ANA	KUAR	ALYANE
3	BAZMA	BAZ	JENEIN_CENTRE	AMI
4	BAGUEL	BAG	CHMAL	ANA
5	BIR ACOUNE	BIA	BOT NOV	LSH
6	CAP BON	CAB	EL FAHS	BOL
7	CAP BON MARIN	CBM	SUD REMADA	BKR
8	CENTRE SUD	CSO		SAS
9	DINHBYT	DNH		BAZZI MELUFOIA
10	DIDON	DID		BAZMA
11	DUREL CLUST	DHD		BELI
12	DOLZ MELENINE	DMW		IBK
13	EUBRIMA	EUB		BIA
14	EL QUARA	ELC		TT
15	ENFIDA	ENF		BIR
16	FEJF	FEJ		BSZ
17	GARE MERIDIONAL	GAM		BIO
18	GARE WEST	GAW		TKC
19	GARES BEN GARDENE	GUB		CAB
20	GOLF DE GARES SUD/ERKATUNAH	GOS		CB
21	GROMBALLIA	GRG		CEH
22	GARES SEPTENTRIONAL WEST	GSW		CEM
23				CEP
24				CEN
25				CSO

- 01 Shared Data Synchronization
- 02 Matching Definitions

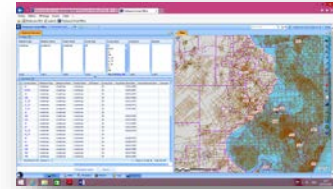
- 03 Data Transfer from Logs to Enterprise Project
- 04 Data Cleanup and Standardization

- 05 Apply Naming Conventions (UWI, UBHI, names)

Post Migration Database Architecture

ProSource Front Office

Data Delivery

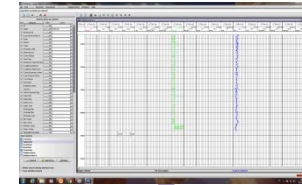
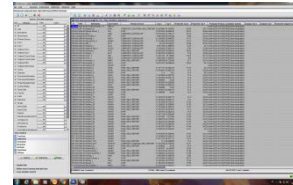
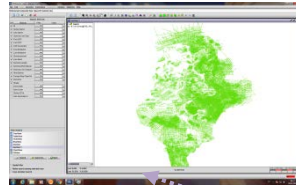


PSS

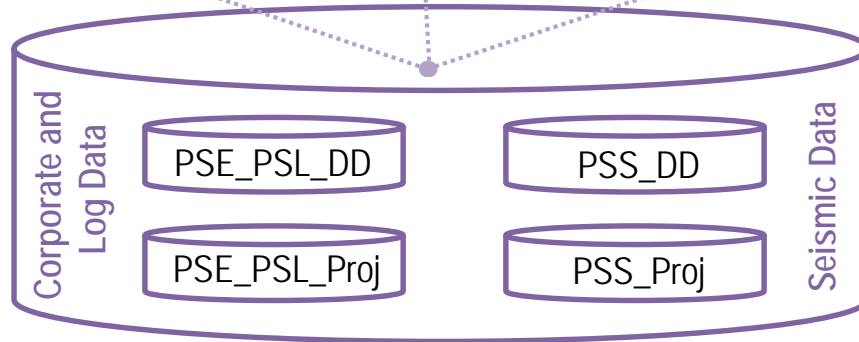
PSE

PSL

Data Management



Seabed Database



Database



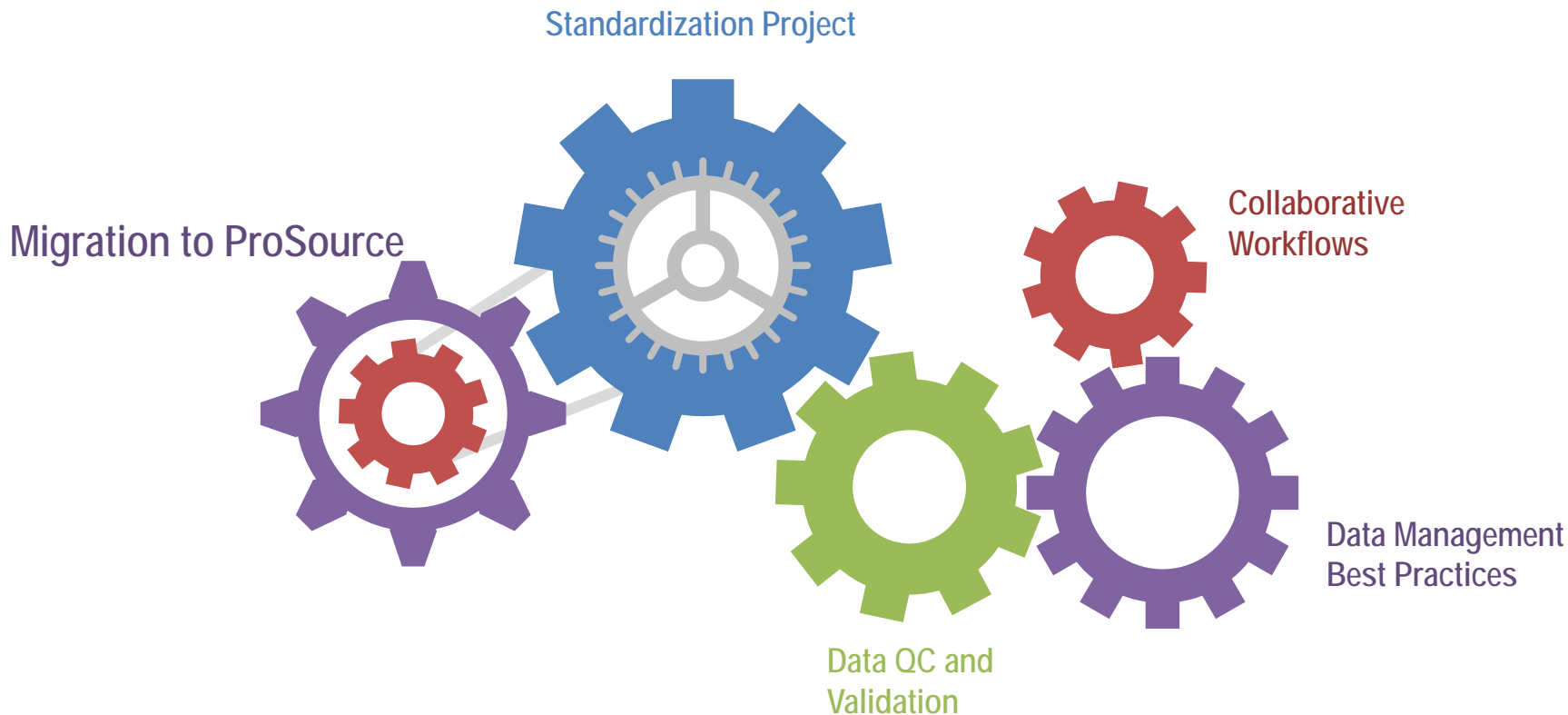
- Single Access point to multiple databases (Corporate, Logs and Seismic) consolidated into a single environment;
- Easier Administration to drive efficiency improvement;
- Simplified Data Quality check and Validation;
- Data Loading Template and Control files easy to generate through standardized process.

Teams



- Single View of Data for whole team;
- Clear and well defined Roles and Responsibilities;
- Task force of business and IT;
- Improved communication between Corporate data and Logs teams;
- Talent is being used and accounted (Data Manager with a Geosciences background);
- Collaborative workflows.

Project of larger Scope

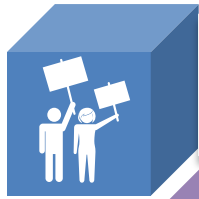


NATIONAL E&P DATA REPOSITORY

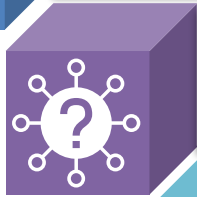
Approach



Wrap Up..



Established a Sense of Urgency Regarding the Situation of the Database Department;



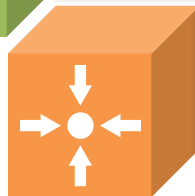
Unfolded the Challenges and Made a vision of the Approach to Change;



Held meetings with the Top Management and got their full support;

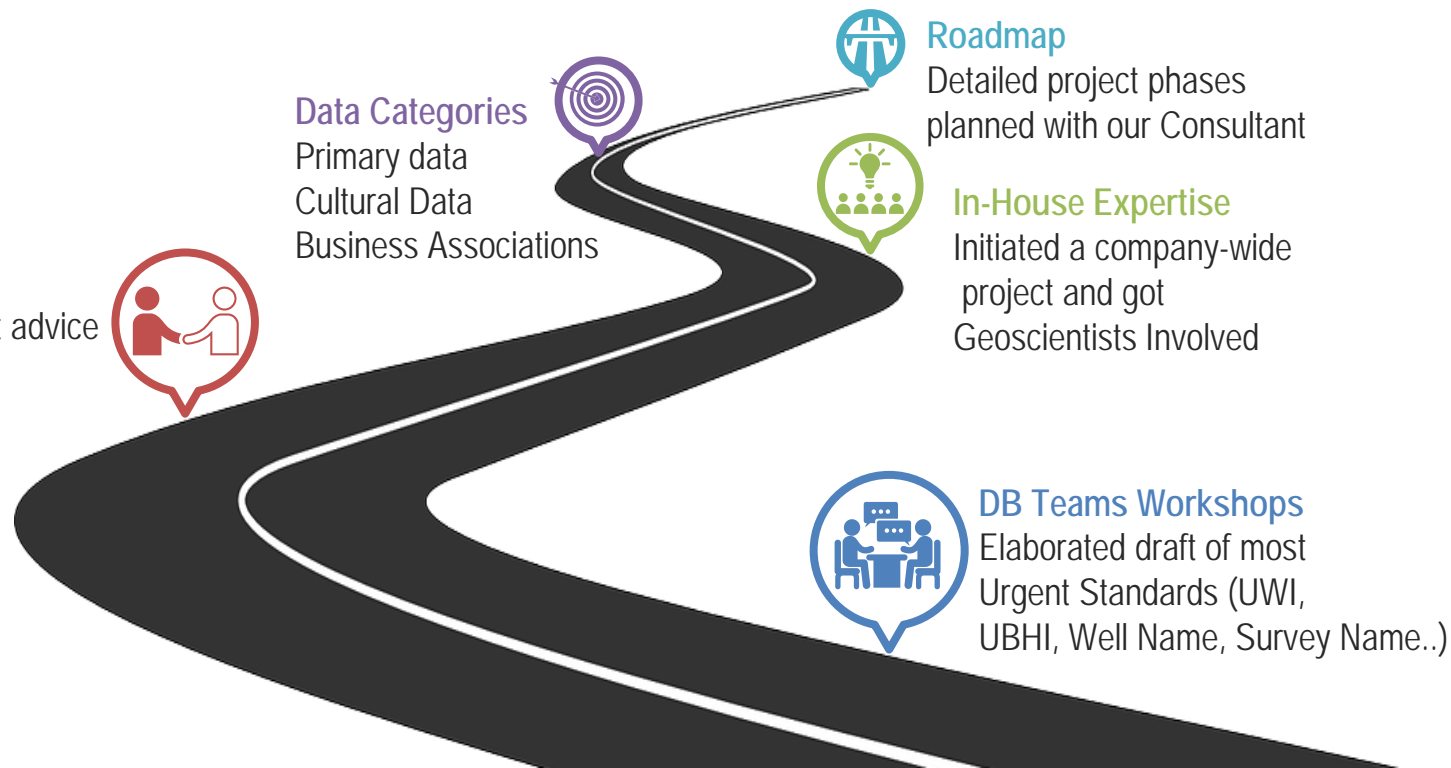


Called for Action: Projects announced and committees formed (People didn't engage easily, work culture!);



Succeeded to make the Database Project a Corporate Priority and a Collaborative effort.

What's Next?



Consultancy

Got Consultant advice
And Discussed
Collaboration



Data Categories

Primary data
Cultural Data
Business Associations



Roadmap

Detailed project phases
planned with our Consultant



In-House Expertise

Initiated a company-wide
project and got
Geoscientists Involved



DB Teams Workshops

Elaborated draft of most
Urgent Standards (UWI,
UBHI, Well Name, Survey Name..)

STANDARDIZATION ROADMAP



Entreprise Tunisienne d'Activités Pétrolières
المؤسسة التونسية للأنشطة البترولية

Imen BOUYAHYA

Subsurface Data Manager

imen.bouyahia@etap.com.tn

+216 97 241 970



What's Next?

SIS Global Forum 2017

September 13-15

Le Palais des Congrès de Paris

Schlumberger