Schedex

A digital industry solution making scheduling data interoperable

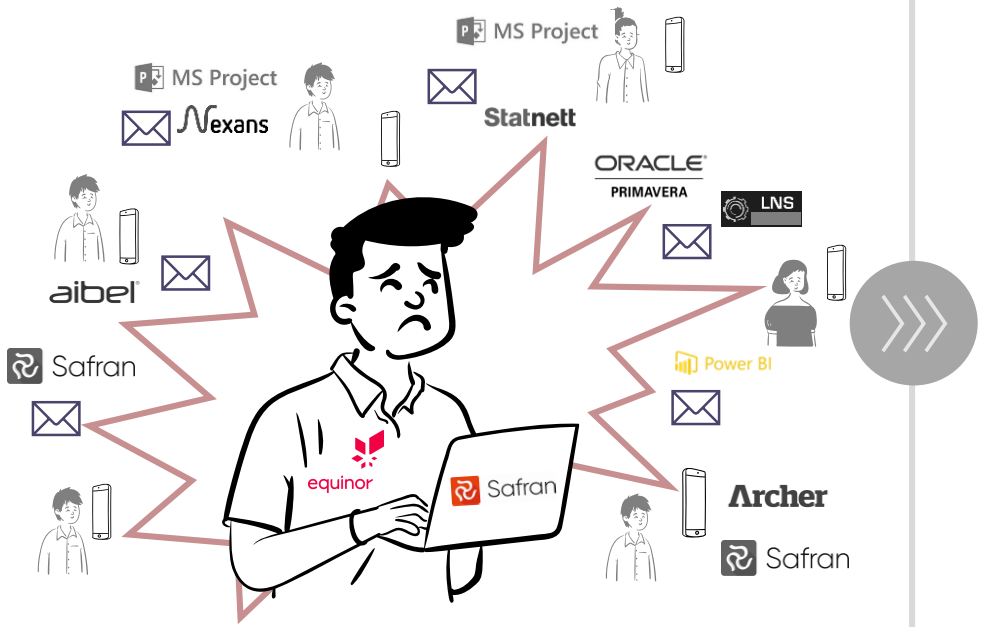
CoOper8

2026

schedex

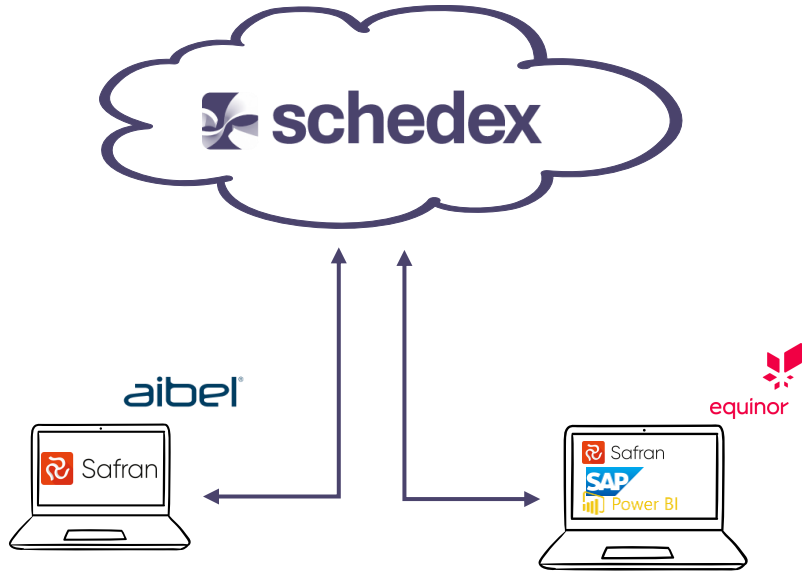
A cross-industry solution for efficient exchange of schedule data across parties, independent of scheduling tools

Current sharing of plan data is fragmented and manual…



*…leading to **quality and safety risks, and costly, error-prone alignment processes***

Schedex enables efficient sharing of plan data across companies…

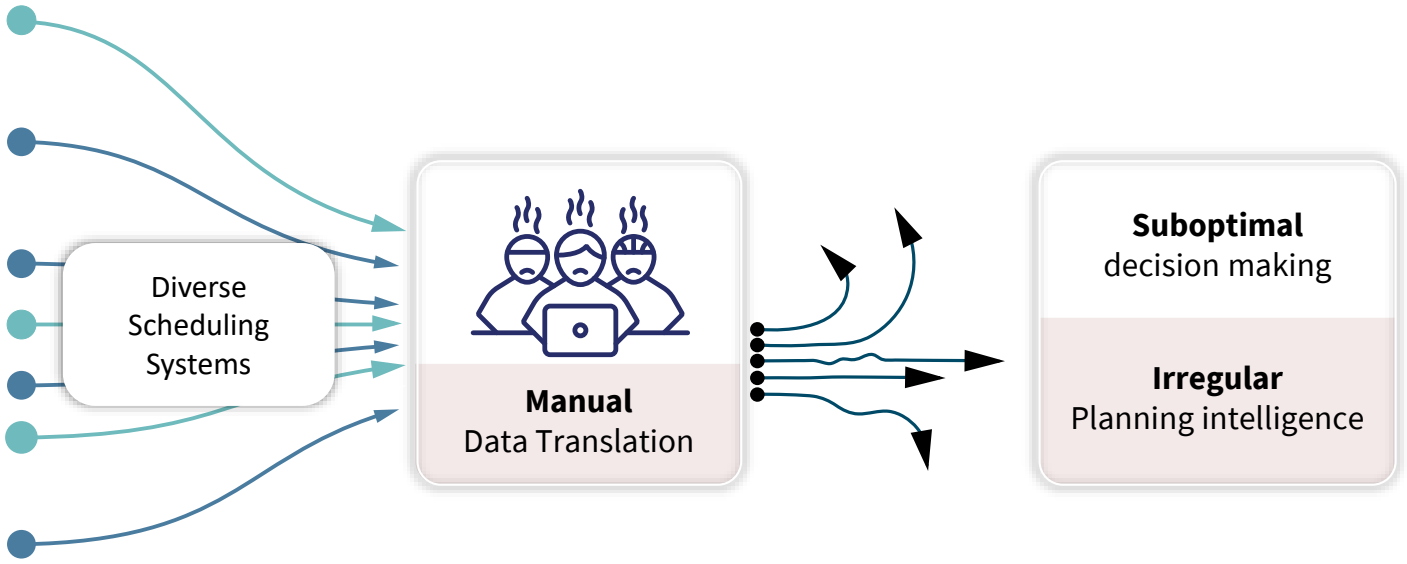


*…enabling **better project quality, data access and resource utilization***

scheduledataexchange

Problem

Manual data processing strangles coordination



Manual data translation

- Labor intensive
- Error prone
- Lagging behind
- Puts safety at risk
- Limits decision-making

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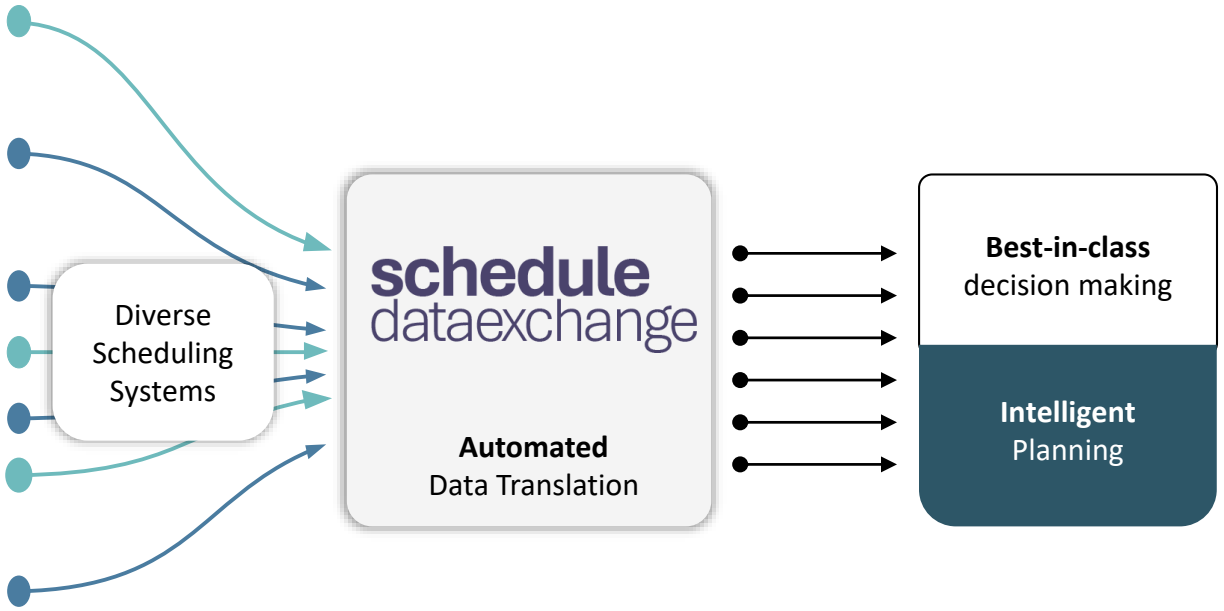
Automated Data Translation gives better decision making



Automated data translation

- Frees up personnel
- No human errors
- Instant updates
- Robust and reliable data
- Improved decision making

Schedex helps make unprofitable fields profitable

Schex drives value throughout the ecosystem by...

Reinventing industry collaboration

Improve coordination and data reliability

Simplifying interfaces and processes

Reduce manual work, errors and rework

Enhancing project quality and reduce risk

Cut capital project costs with 2-3%[1]

1. According to Accenture ILAP Assessment 2023, mainly through reducing replanning

What users are saying

"For Project Management the use of **Schedex has been a game changer**"

- *Lars Gravdal, Project Control Manager in Equinor*

"This transition can be likened to moving from using a **map and compass to utilizing GPS**"

- *Bård Atle Hovd, Chief Project Execution, Aker BP*

Schedex history and status overview

+10 years of industry collaboration and continuous improvement

Early 2010's

2012: ILAP initiated

AkerBP ConocoPhillips equinor vår energi

2013-2018 Exploring

- ✓ Tin-can Solution
- ✓ Pilot projects
- ✓ ISO standard

ISO

2019-2022 Doing

- ✓ Implementation focus
- ✓ Piloting to scale

AkerSolutions aibel

2023-2025 Becoming

- ✓ Cloud Solution
- ✓ Revision of ISO standard

Azure

ILAP Data exchange

ILAP Analytics

+ 2026 Being

- ❑ ILAP changed name to Schedex
- ❑ Global scaling
- ❑ Unleash future potentials

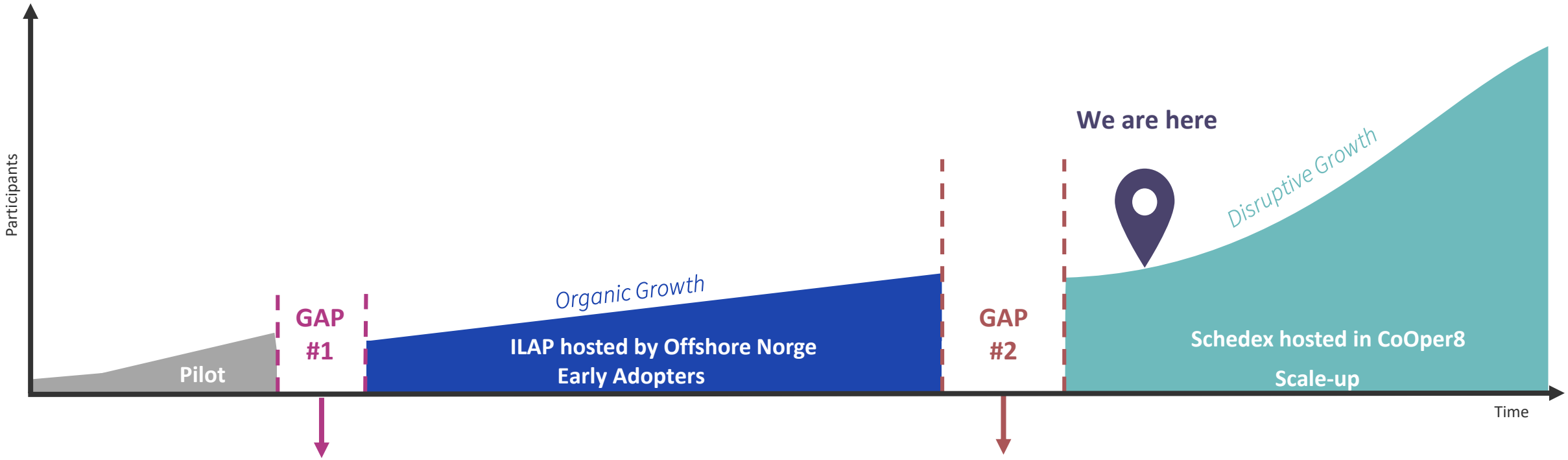
schedex

schedule exchange

schedule analytics

Schedex Ambition – Building Bridges to close gaps

While Realizing Value At Every Stage



Operate & Mature

Should be completed before moving on to the next phase

- ✓ Finalize the ILAP concept
- ✓ Finalize the service model
- ✓ Communication strategy
- ✓ Service delivery model
- ✓ Robustness in technical solution

Growth & Commercial

- ✓ Market Study and Business Plan
- ✓ Pitch deck and funding strategy
- ✓ Partnership strategy (Implementation, Standard initiatives, Value added services)
- ✓ Develop fully scalable technical solution
- ✓ Name change of service from ILAP to Schedex

The Challenge

Shared infrastructure and service solutions are increasingly common across industries

tradesolution

Food & beverage

Common logistics and data interchange platforms for orders, invoicing & product data

BITS

Finance

Shared debit card and payment processing enabling acceptance of cards across Norway

REN

National grid

Shared guideline and solutions for design, installation, operation and maintenance of the Norwegian grid

Several industries have established proprietary solutions for collaboration, where the industry retains ownership

This collaboration creates value across industry ecosystems

Interoperability
Common data standards enable a “joint language” and seamless connection

Efficiency
Shared services help to streamline processes and speed up collaboration

Cost reductions
Industry-wide solutions cut duplicate efforts and lower the overall costs

Lower error rates
Standards & automation improve data quality and reduce amount of rework

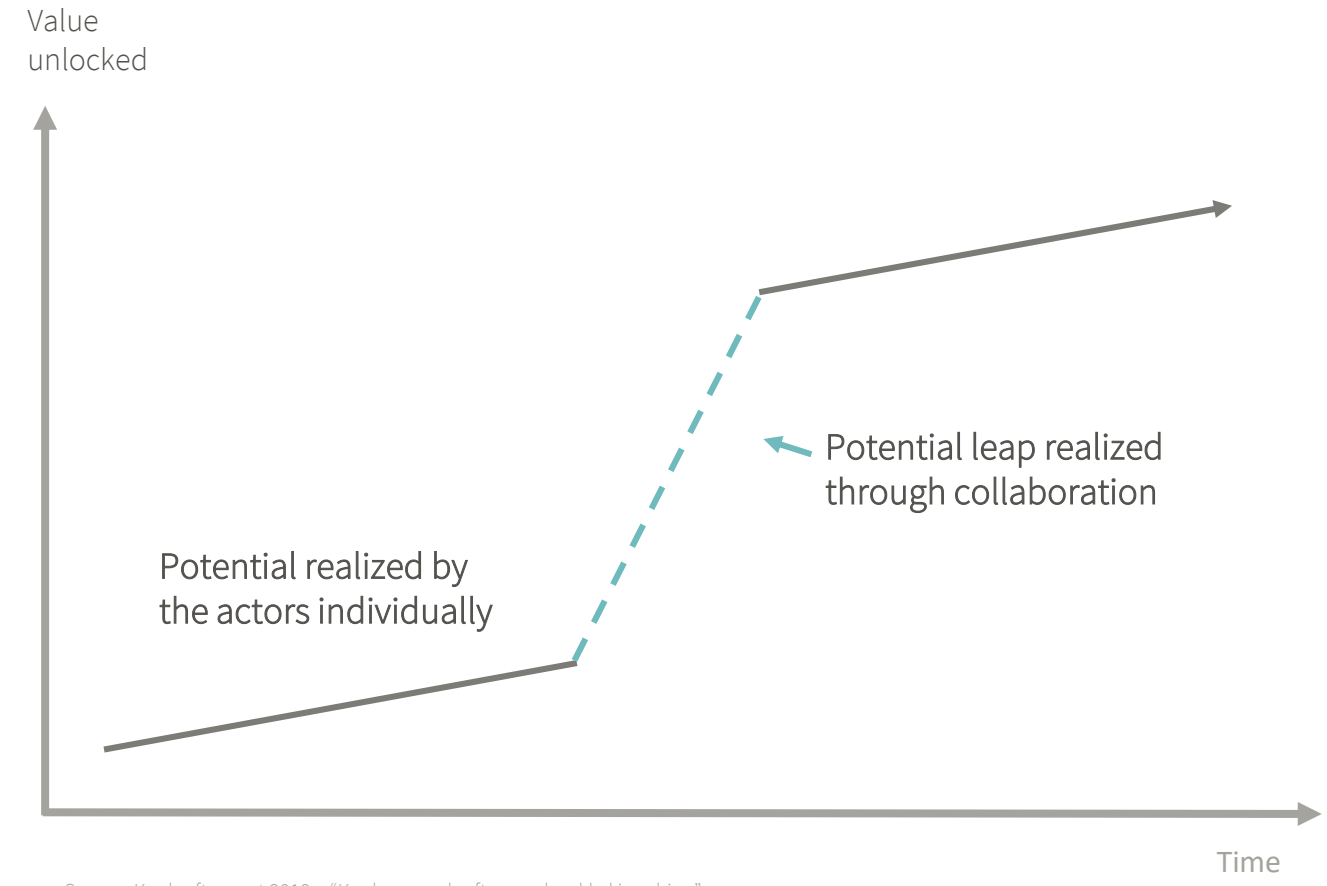
These value buckets are highly relevant for the energy industry

Konkraft report documents similar value potential for the energy industry

"The oil and gas industry is among those with least progress in realizing efficiency and productivity effects through digitalization, data sharing, data flow and interaction between actors"

- *Konkraft Report 2018*

Value potential realized through collaboration vs individual action for Norwegian continental shelf actors



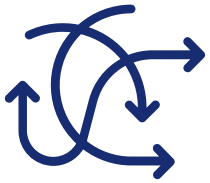
Source: Konkraft report 2018 – "Konkurransekraft – norsk sokkel i endring"

Traditional collaboration on the NCS contributes to inefficient management of plan data

Example of current data sharing process

Contractors provide **costly** and **inefficient** tailoring of data format to *each customer*

Original contractor data



Tailored datasets

Standardizing schedule data across the ecosystem will **save time and resources** for both *contractors* and *operators*

A one-contractor project generates 600+ pages pdf, 20+ files, and 15-20k schedule activities each month

Example of current data sharing process for one project

Monthly reporting from a single contractor in one investment project:

600+ pages .pdf

15 – 20 000 activities

20+ different files

Schedule example: One project - One contractor - One month

Main Category	Description	Baseline Early Start	Baseline Early Finish	Early Start	Early Finish	Current Planned Progress	Actual %	Baseline QTY (CSH)	Current QTY (RSH)	Expended QTY	Comm. Package
A	Milestones	01.Jun.2018	30.Sep.2018	01.Jun.2018	30.Sep.2						
AB	*Internal Milestone*	*01.Jun.2018*	*30.Sep.2018*	*01.Jun.2018*	*30.Sep.2*						
ABIM51C1	Construction scope related to demolition of vent lines in columns, existing area C10, C20, C30 & C40 to be completed	01.Jun.2018	31.May.2018	01.Jun.2018	31.May.20						
ABIM16C2	Construction scope related to Riser Guide supports completed	01.Jul.2018	30.Jun.2018	01.Jul.2018	30.Jun.201						
ABIM52C1A	Construction scope related to structural reinforcement below main deck, existing area C10, C20, C30 & C40 and tubular chords to be completed	01.Aug.2018	31.Jul.2018	01.Aug.2018	31.Jul.2018						
ABIM50C1	Construction scope related to columns and pontoons to be complete installed	15.Aug.2018	14.Aug.2018	15.Aug.2018	14.Aug.201						
ABIM53C1	All surface treatment under main deck to be completed	01.Sep.2018	31.Aug.2018	01.Sep.2018	31.Aug.201						
ABIM16C1	Construction scope to be completed prior to Heavy lift of upper Derick	03.Sep.2018	31.Aug.2018	03.Sep.2018	31.Aug.201						
ABIM52C1B	Construction scope related to structural reinforcement above main deck, existing area C10, C20, C30 & C40 and tubular chords to be completed	01.Sep.2018	31.Aug.2018	01.Oct.2018	30.Sep.201						
ABIM50C2	Construction scope related to piping and structural in area between El 30.500-32.000 to be complete installed	01.Oct.2018	30.Sep.2018	01.Oct.2018	30.Sep.201						
F	MC-Mechanical Completion	15.Aug.2018	20.Sep.2019	17.Apr.2018	15.Oct.2						
FZ	*Multidiscipline / general*	*15.Aug.2018*	*20.Sep.2019*	*17.Apr.2018*	*15.Oct.2*						
FZ18403C02	MC-Complete - Switchboard EH-84-0010. Comm. Pack 8403-C02	15.Aug.2018	28.Aug.2018	17.Apr.2018	23.Apr.201						
FZ18203C08	MC-Complete - Switchboard EH-82-0010. Comm. Pack 8203-C08	01.Oct.2018	19.Oct.2018	17.Apr.2018	23.Apr.201						
FZ17602C06	MC Complete - Remove MOB boat No 2 - Comm. Pack 7602-C06			17.Oct.2018	30.Oct.201						
FZ18204C17	MC-Complete - Modification of normal lightning in M10. Comm. Pack 8204-C17	03.Dec.2018	21.Dec.2018	03.Dec.2018	21.Dec.201						
FZ18404C19	MC-Complete - Modification of Emergency lightning in M10. Comm. Pack 8404-C19	03.Dec.2018	21.Dec.2018	03.Dec.2018	21.Dec.2018			0,1	0,1	0,0	8404-C19
FZ25501C03	MC Complete - Remove/Install piping Comm. Pack 5501-C03			04.Dec.2018	17.Dec.2018					0,0	5501-C03
FZ17001C22	MC Complete - Fire Area C8104: Hydraulic Start Unit Main Generators. Comm. Pack 7001-C22	01.Mar.2019	21.Mar.2019	01.Mar.2019	21.Mar.2019			0,1	0,1	0,0	7001-C22
FZ15701C01	MC Complete - Tie-In to closed drain flash drum. Comm. Pack 5701-C01	01.Mar.2019	21.Mar.2019	01.Mar.2019	21.Mar.2			0,1	0,1	0,0	5701-C01
FZ18801C02	MC-Complete - Earting system Comm. Pack 8801-C02			02.May.2019	15.May					0,0	8801-C02
FZ14202C02	MC Complete - Dechlorination (sodium bisulphite) Package. Comm. Pack 4202-C02	01.Oct.2018	19.Oct.2018	13.May.2019	05.Jun			1	0,1	0,0	4202-C02
FZ15601C05	MC Complete - Hazardous open drain from Chemical spill. Comm. Pack 5601-C05	20.May.2019	12.Jun.2019	23.May.2019	17.Jun					0,0	5601-C05
FZ17001C16	MC Complete - Fire Area C8105: SCDS Pump Unit. Comm. Pack 7001-C16	03.Jun.2019	24.Jun.2019	03.Jun.2019	24.Jun.2			0,1	0,1	0,0	7001-C16
FZ10404C04	MC-Complete - Monorails And Lifting lugs Area C00. Comm. Pack 0404-C04			07.Aug.2019	20.Aug.201					0,0	0404-C04
FZ14302C03	MC-Complete - Remove / Reinstal Relief Headers. Comm. Pack 4302-C03	20.Aug.2019	02.Sep.2019	20.Aug.2019	02.Sep.2019			0,1	0,1	0,0	4302-C03

Name	Status	Date modified	Type
1.1.3 PS Detail Eng PerDisciplin_BL		02.05.2018 11:55	Adobe Acrobat Document
BAR-EPC_Detail Method and Work Descr		02.05.2018 11:47	Adobe Acrobat Document
BAR-EPC_Detailed Network Schedule		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL Constr_Disc		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL Eng_Disc		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL Main Cat		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL Product		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL WBS		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-Total BL		02.05.2018 11:48	Adobe Acrobat Document
Hist-EPC-M-WD activites-BL		02.05.2018 11:48	Adobe Acrobat Document
PS M Constr. Baseline EPC Installation		02.05.2018 11:48	Adobe Acrobat Document
PS M Constr. Baseline EPC Prefabrication		02.05.2018 11:48	Adobe Acrobat Document
PS M Constr. Baseline EPC Pre-Installation		02.05.2018 11:47	Adobe Acrobat Document
PS-Baseline-Metode og Fab-eng-Discipline(W) EPC		02.05.2018 11:55	Adobe Acrobat Document
PS-EPC-M-Bauge total WBS BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Fenja total WBS BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Future HUB total WBS BL		02.05.2018 11:47	Adobe Acrobat Document
PS-EPC-M-NJA total WBS BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total BL Main Cat -Discipline		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total Client-WBS Komp_form_BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total Product BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total WBS - Product BL		02.05.2018 11:48	Adobe Acrobat Document
PS-EPC-M-Total WBS BL		02.05.2018 11:48	Adobe Acrobat Document

2017 | 2018 | 2019 | 2020
Aug | Dec | Apr | Aug | Dec | Apr | Aug | Dec | Apr
28.08 | 06.01 | 17.05 | 25.09 | 03.02 | 14.06 | 23.10 | 02.03

Page: 1 of 633

Early Dates | Milestone | Summary | Baseline

BAR-EPC_Detailed Network Schedule — Page : 1 of 633 — Printed : 02.05.18 10:57

Projects typically include multiple contractors from which plan data must be coordinated

Example: Melkøya electrification

The project ecosystem relies on several systems that don't communicate....

... so project managers need to manually input data in a project master schedule...

... resulting in significant challenges for the project

aibel

Nexans

Statnett

LNS

Safran

ORACLE PRIMAVERA

MS Project

MS Project

Project master schedule

Safran equinor

Core challenges

- Manual punching
- Resource and time consuming
- Limited insight and availability
- Time delays
- High costs
- Quality risks – potential errors
- Safety risks – schedules not coordinated

Single Project:

Projects Typically Include Multiple Contractors From Which Schedules Must Be Coordinated

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scheduledataexchange

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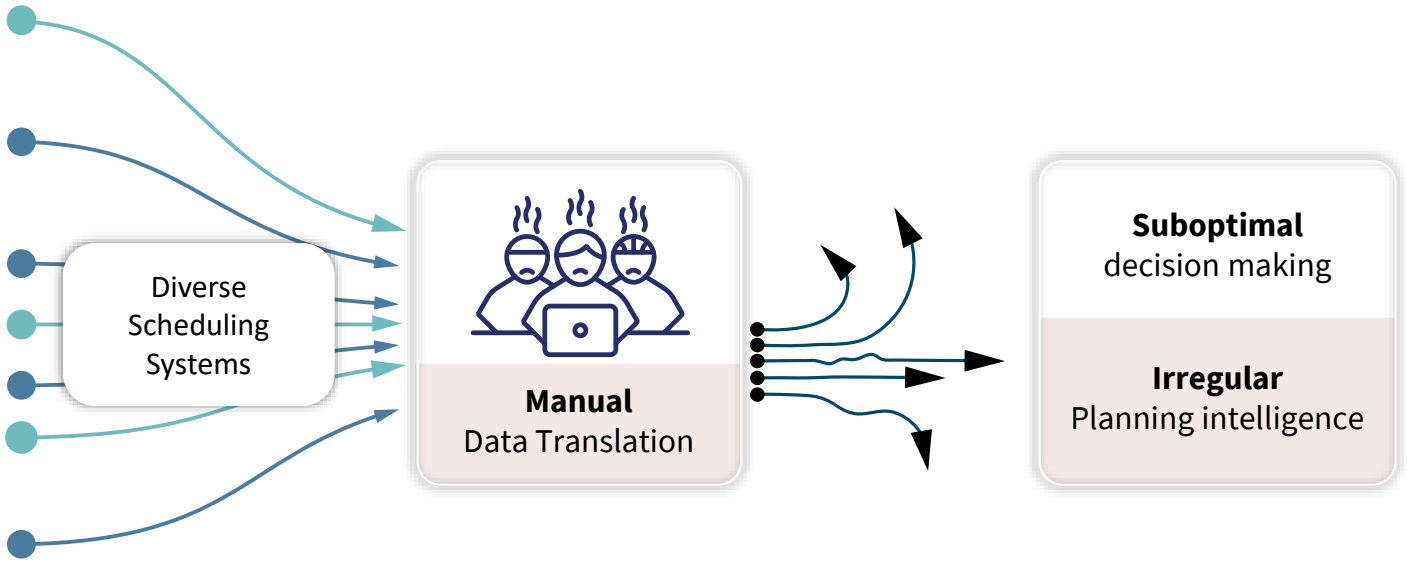

Manual data translation

- Labor intensive
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- Lagging behind
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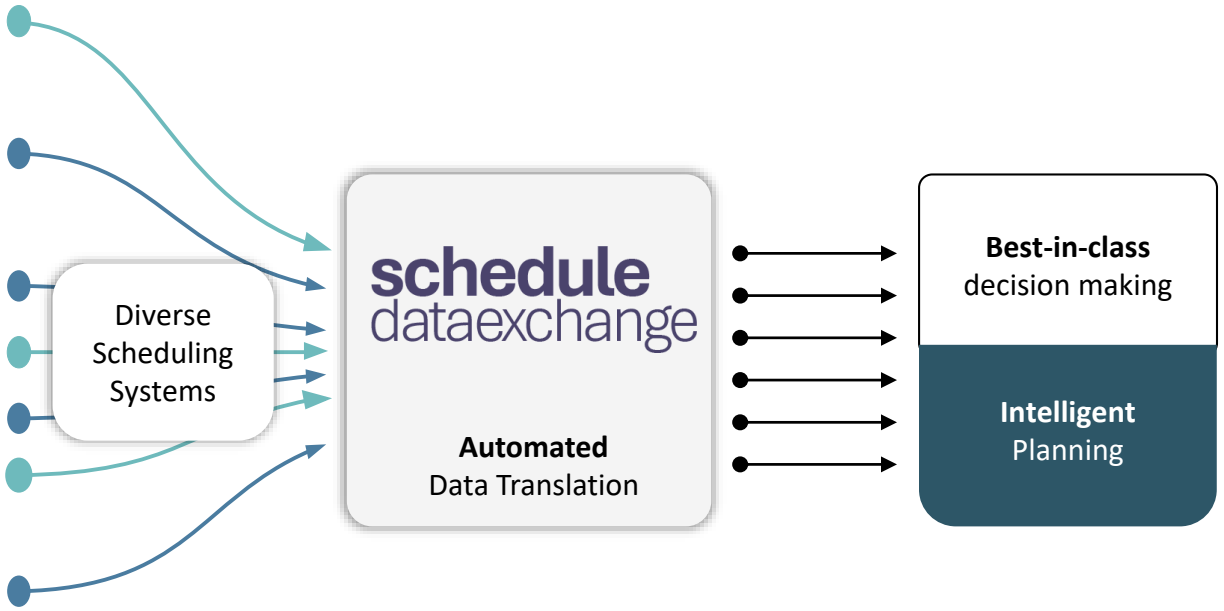
- Limits decision-making


The solution

Solution

Automated Data Translation gives better decision making



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schedex

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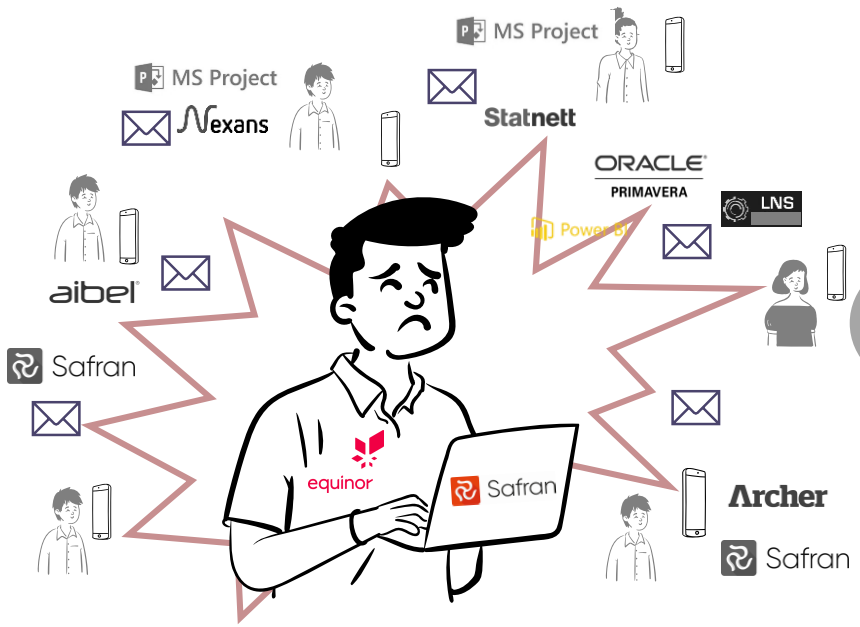

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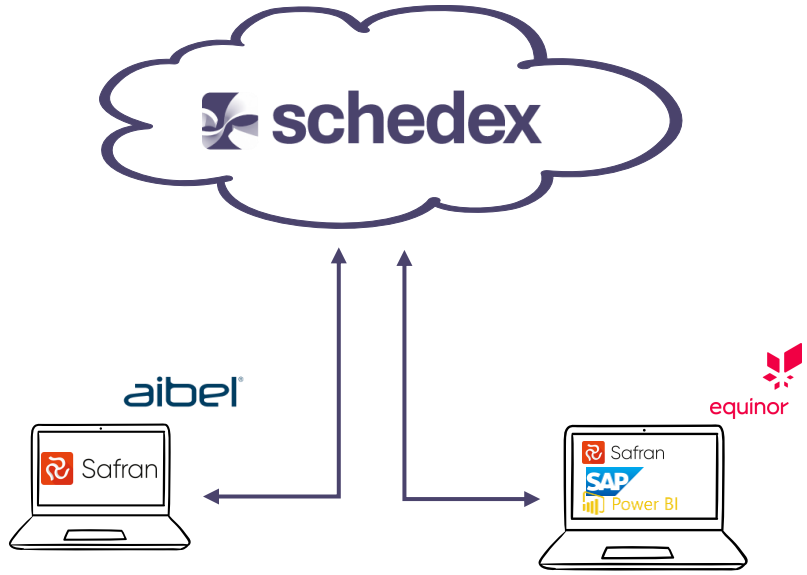
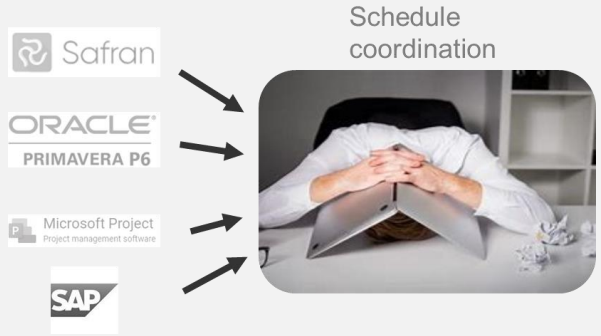
Schedex enables efficient sharing of plan data across companies…



*…enabling **better project quality, data access and resource utilization***

Schedex delivers accurate and timely data that enhances project quality and reduces risk

The Scheduling Problem



Manual and time-consuming data sharing

High cost

Lower quality of data for decision making

Quality and safety risks, and costly processes

The Schedule Exchange Solution

Standardized and effective data sharing

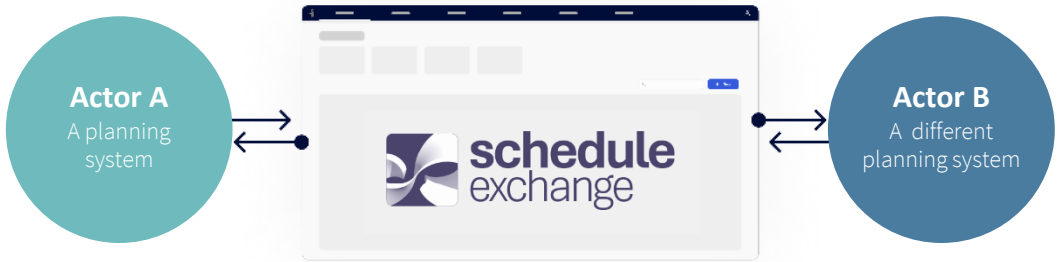
Financial savings

Improved collaboration

Better project quality and improved resource utilization

schedex overview

Schedule exchange translates schedules from commercial planning tools to a **standard format**, readable to other planning tools, based upon a global ISO standard



The Schedex software suite consists of two products

schedule exchange

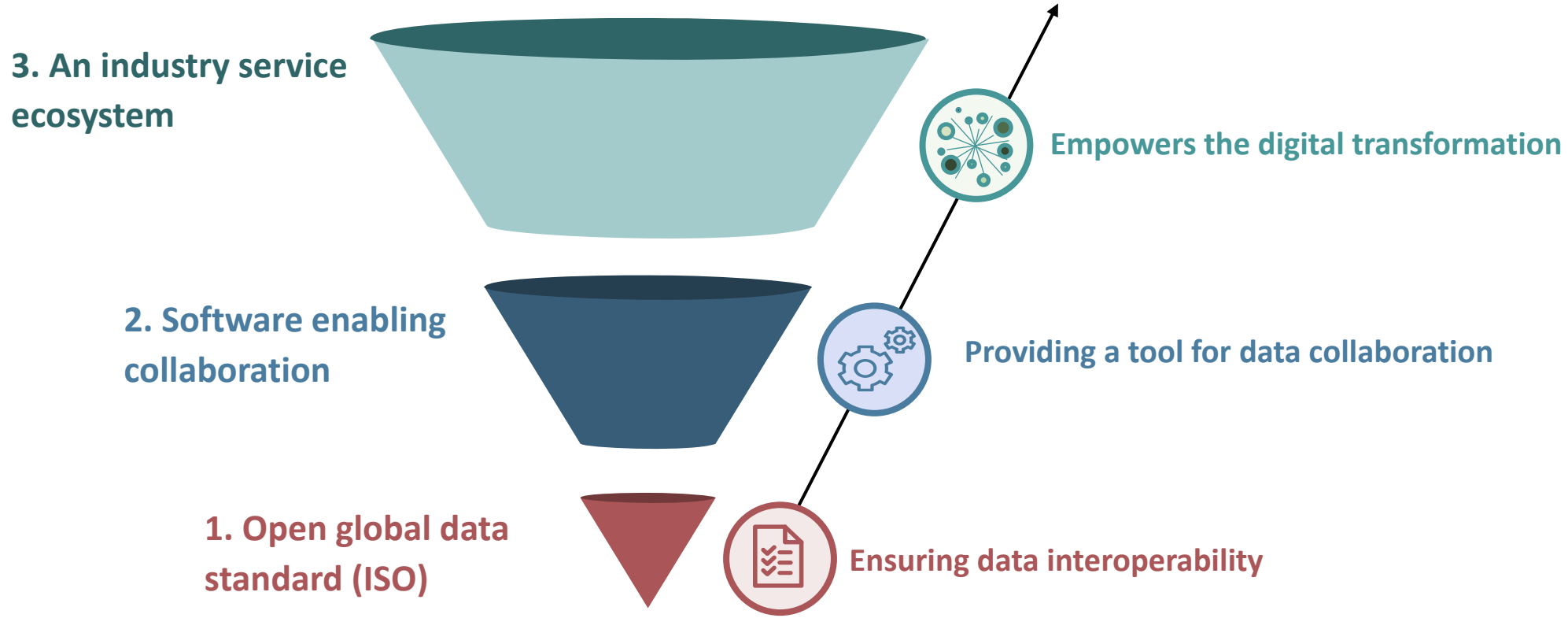
A shared cloud solution enabling scheduled transfers of plan data between actors and across different scheduling systems

schedule analytics

A company internal solution enabling schedule analytics and data distribution

Schedex is a three-fold:
An iso standard, Software and an Ecosystem

The three pillars of Schedex….

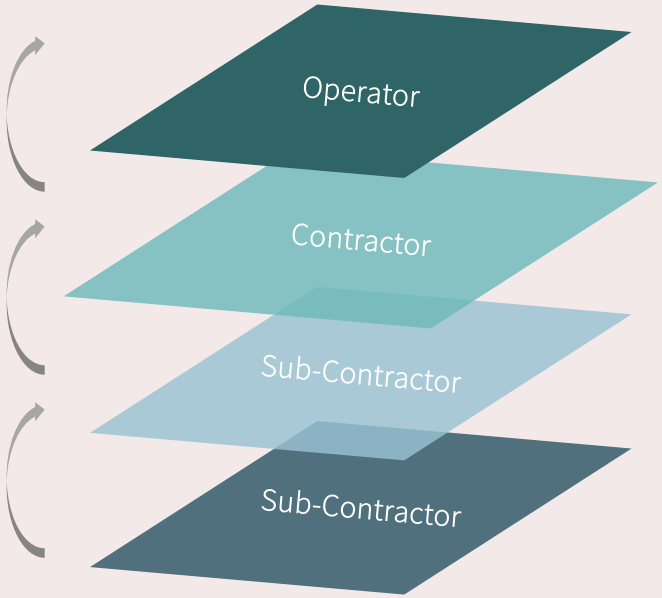


Schedex reinvents industry collaboration

Traditional approach to scheduling is manual and one-directional

Information & products passed sequentially up the stack

Largely manual information sharing, e.g. based on PDF



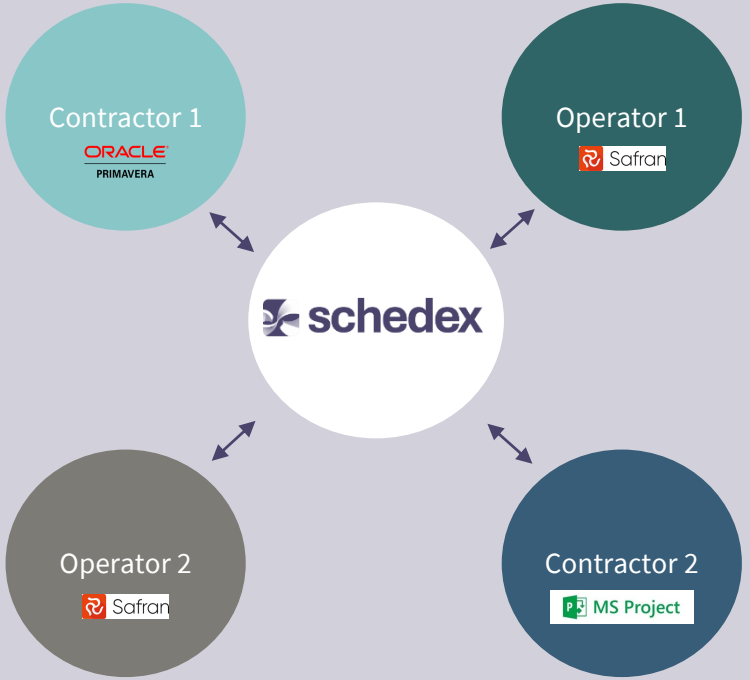
→ **Very limited, one directional** information and product flow

Information can take **weeks or months** to reach final recipient

Schedex enables an integrated ecosystem approach to scheduling

Standardized information is shared around the ecosystem

Standardized information shared where Schedex links the ecosystem



Multidirectional flow of data across ecosystem

Data sharing is **quick and automatic**

Source: Interview with project control manager in Equinor; Accenture analysis 2023

Schedex simplifies processes and interfaces to improve resource efficiency

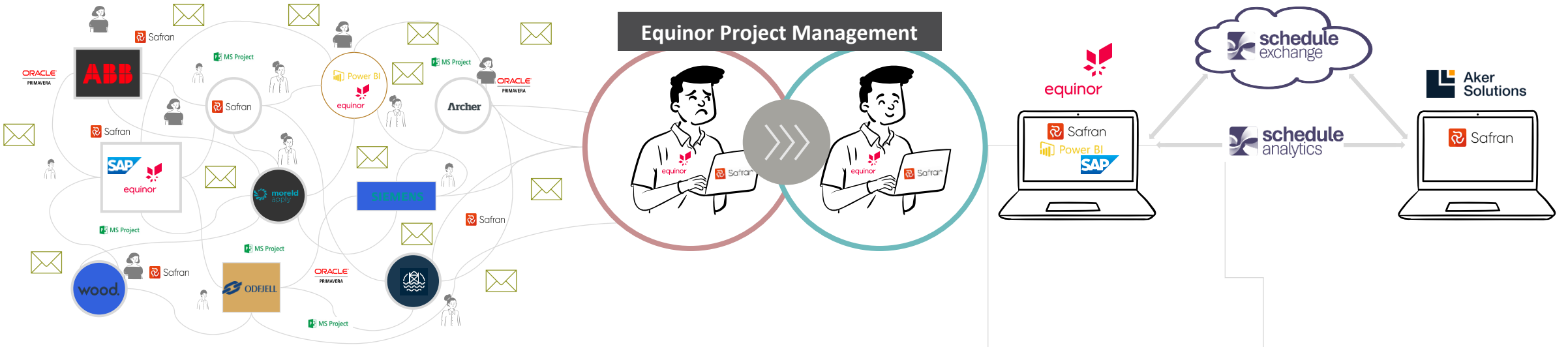
Example: Equinor Use Case

From manual sharing and punching of proprietary plan data…

Currently used with most suppliers on EPN project

…to a standardized sharing solution for improved resource efficiency

Piloted for these Equinor use cases with Aker Solutions



Heidrun SAR Garasje update replaced manual punch of **352 WO in SAP**

Potential savings Snøhvit: 3 planners currently punch WO in SAP. Automating → **6 MNOK in annual savings**

Schedex delivers accurate and timely data that enhances project quality and reduces risk

Work in progress

Use cases

Direct use case

1. Automated exchange of schedule data

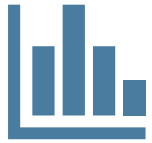
Deep dive follows

Ecosystem enabled use cases

2. Integrated activity planning

3. Predictive scheduling

4. Advanced project control and analytics



5. Dynamic project reporting

6. Unidentified potential

Source: Accenture ILAP Assessment, June 2023

The greatest potential from Schedex is unlocked through better decision making in the ecosystem

Work in progress

Use cases

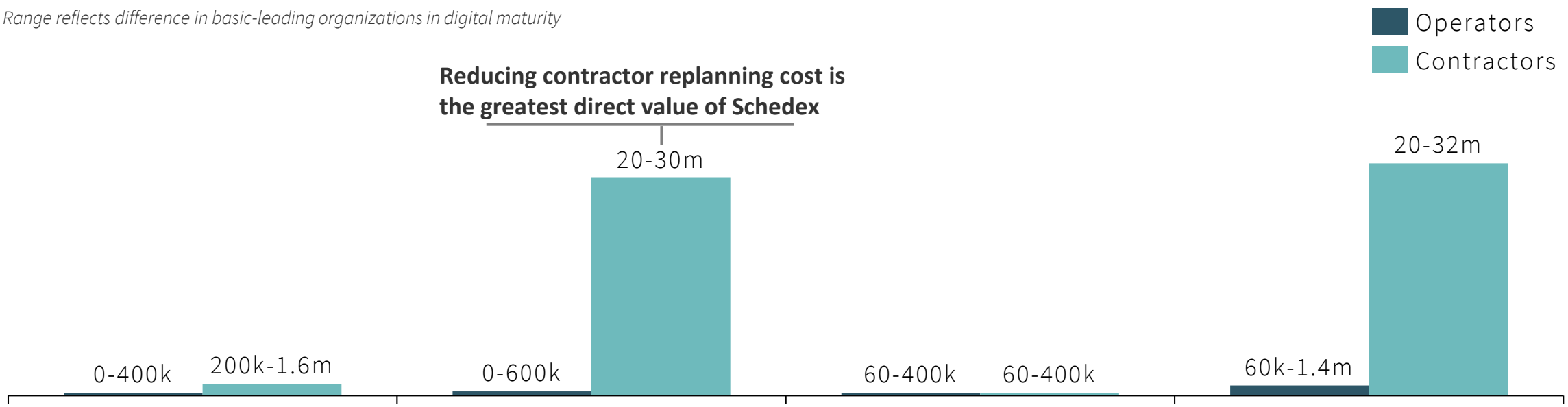
	Direct use case	*Ecosystem enabled use cases*				
	1. Automated exchange of schedule data	**2. Integrated activity planning**	**3. Predictive scheduling**	**4. Advanced project control and analytics**	**5. Dynamic project reporting**	**6. Unidentified potential**
Value potential	**Low**	**High**	**High**	**High**	**Medium**	**Very high**
Example reference case	Savings from schedule data automation for 15 Equinor projects	Integrated helicopter planning	Optimize capital projects schedule with AI	Analysis of Project performance across all disciplines	Analysis of Project performance across all disciplines	*Use cases unlocked by a new foundation of digitalization and improved collaboration*
Reference case savings	**~15-20m NOK** annual savings	**175mUSD** annually **58k tons** CO2 annually	**1.2mUSD** cost savings annually **19% reduction in project duration**, meaning earlier realization of profits	**4.3mUSD OPEX** savings annually **35% savings** in logistics cost **75% reduction in procurement** lead time	**1.2mUSD** cost savings annually **19% reduction in project duration**, meaning earlier realization of profits	
	Deep dive follows					

Source: Reference case 0: Equinor interviews of ILAP implementation in 15 brownfield projects; Reference case 2-5: Accenture ILAP Assessment, June 2023. Reference cases reflect experiences of similar companies implementing comparable solutions

Reducing replanning through automated data exchange can decrease capital project costs with 2-3%

Estimated annual savings based on a 1bn USD capital project, USD

Range reflects difference in basic-leading organizations in digital maturity



Reducing data administration

Simplifying import of schedule data to a few clicks

Reducing re-planning

Replacing schedule re-planning with other value adding activities

Reducing connections

Replacing all data collections with one connection to Schedex

Total savings potential

20.6-33.4 m in total annual capital savings potential

$ **Direct savings from automated exchange of schedule data reflects a small part of the total Schedex value potential**

Source: Accenture ILAP Assessment, June 2023. FTE costs are based on input from project planners in Equinor, AkerBP, Vår Energi and ConocoPhilips

Reducing replanning reduces budget overruns & time delays

Work in progress

Replanning comes with ripple effects such as…

Increased costs

Potential increased risk

Project and operational delays

Reduced stakeholder satisfaction

Challenges with resource allocation

Increased emissions & resource use

Case studies

What users are saying

"For Project Management the use of **Schedex has been a game changer**"

- *Lars Gravdal, Project Control Manager in Equinor*

"This transition can be likened to moving from using a **map and compass to utilizing GPS**"

- *Bård Atle Hovd, Chief Project Execution, Aker BP*

Equinor's Schedex Use Has Already Unlocked 15-20+ Mnok In Annual Savings

Example: Equinor Schedex Implementation

Preliminary

Equinor has implemented Schedex across its business…..

15

Large EPCI projects
(Brownfield topside)

35

Offshore installations
with around 800 V&M projects

+++

Equinor is expanding Schedex
use to multiple business units and ongoing projects

…Yet the majority of the potential result from better decision making

~15-20

mNOK annual savings
Identified from direct time savings in data migration and analytics processes in the 15 EPCI projects alone

+++

Most benefits lie in better decisions making, from:

- Improved early detection of deviations
- Elimination of human errors when transferring data from PDF to Excel
- Standardized analytics, reducing need for individual project development
- Easy access to relevant information through customized analytical tools

Source: Equinor project manager interviews

User quotes

"For Project Management, **Schedex has been a game changer"**

"We get much more detailed access to contractor's plans and status – and **can easily register any deviations"**

Lars Gravdal, Project Control manager in Equinor

"Schedex/ADS provides broad status overview with great possibilities for analysis, **helping us detect and avoid potential project delays"**

Arild Gjerstad, Project Director in Equinor

SCHEDEX HAS IMPROVED DATA ACCESSIBILITY AND QUALITY FOR AKER BP

Example: Aker BP Schedex Implementation

Preliminary

Aker BP has implemented Schedex across its business…..

~ 4
Major Greenfield Projects

~ 2
Major modifications projects

~120
Minor modifications projects

The activities cover all Aker BP Assets in some way.

…and early focus has been on unlocking core benefits

- ★★★ **Improved data quality**
- **More accessible data**
- **More time for analysis vs manual work**
- **Reduced staffing needs**
- **Enhanced control over data flow**

Source: Aker BP project manager interviews

User quotes

“Schedex facilitates the use of planning data across various platforms.

A prime example is the Supply Chain Radar, a comprehensive dashboard that integrates and displays a wealth of data.

This transition can be likened to

moving from using a map and compass to utilizing GPS”

- *Bård Atle Hovd, Chief Project Execution, Aker BP*

How can we work together to drive success?

Thank you

TBD

Meeting Title

Date 2026