# SNC LAVALIN

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#### Presenting to:

The Board of SNC LAVALIN

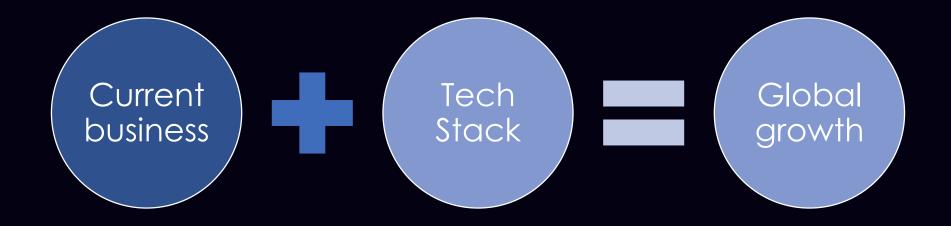
"We are not selling a car, we are selling the concept of a car and all the knowledge behind it; making markets that would be impossible for us to conquer now reachable"

Unity cars 2018

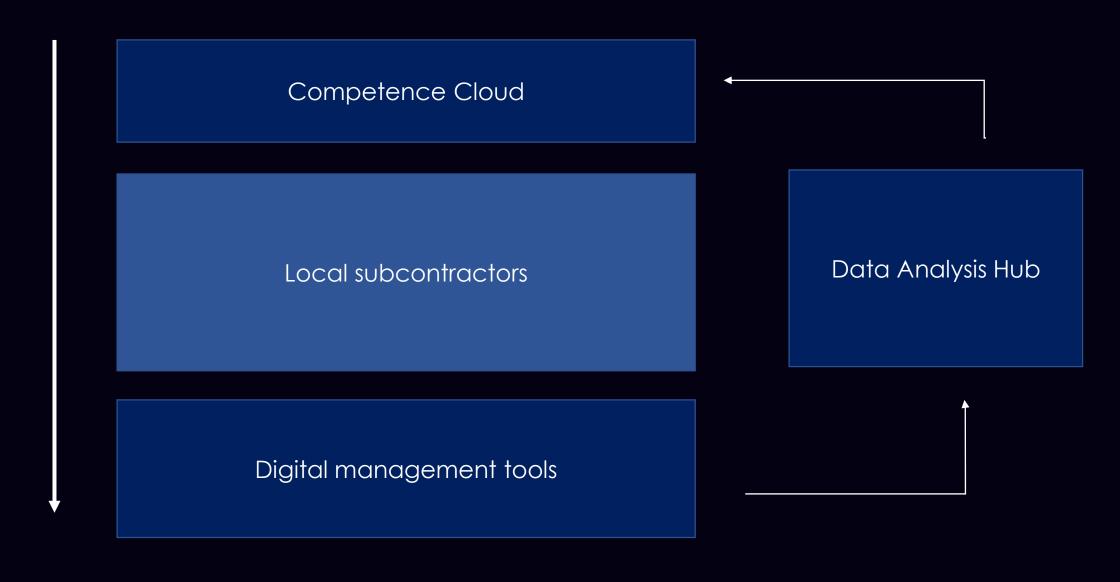
#### The core values of SCN LAVALIN

Safety Collaboration
Integrity Innovation

### What is this all about?



# Applying the Tech stack business model



# Agenda



#### Current situation and core business

# Building what matters

Great heritage Projected revenue of \$10 b

50,000+ employees

# The current challenges for SNC LAVALIN

Digitalizing the business model

Leveraging the core competences

Enabling continued growth

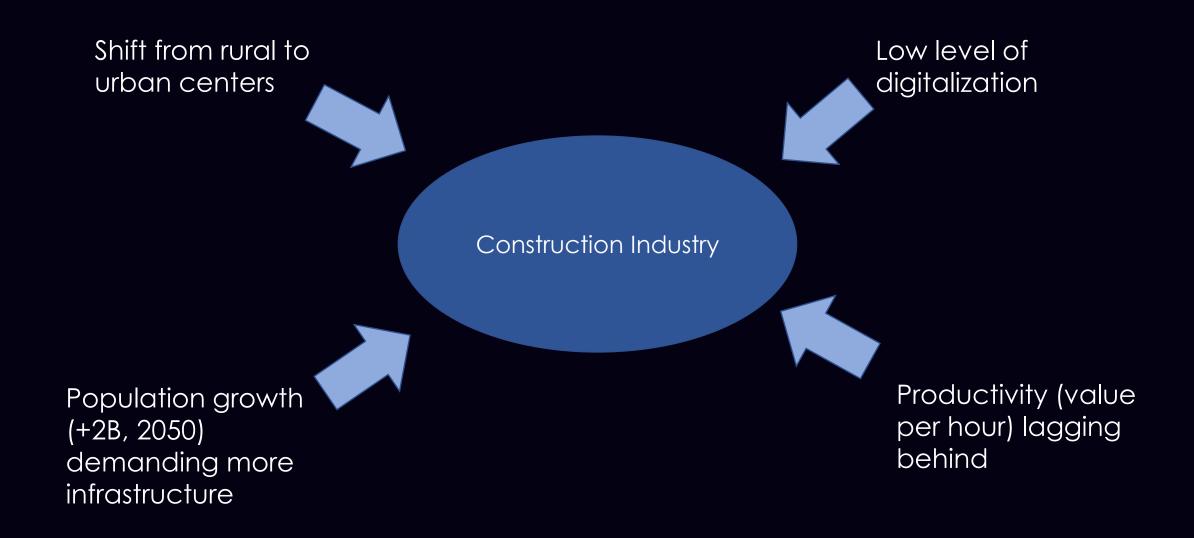
#### Main Challenge

 How can SNC LAVALIN sustain competative advantage and profitability in the face of digital transformation

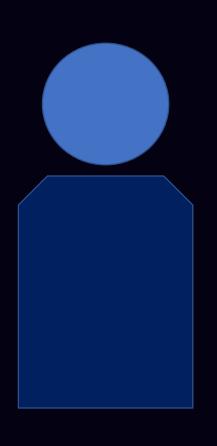
#### Recommendation

 Developing a capital light business model for expansion based on a tech stack enabling scalability and organizational memory

### Forces changing the construction industry



# Who are your customers?



Wants

- Top talent
- Top experience
- Efficiency and world class service

#### Needs

- Increased public accountability calls for transparency
- Cost efficiency
- Cutting edge, but proven <u>solutions</u>

#### Developing a sense of urgency for digital transformation

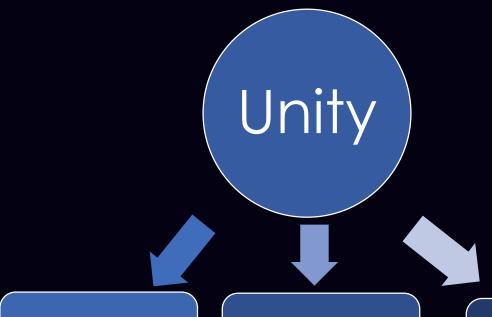
#### **Disrupting technology**

- Blockchain (P2P contracting)
- Additive manufacturing
- Machine Learning
- Automation

#### Where to play

- CUSTOMER EXPERIENCE
  - Safety
  - Organizational competence
  - Service
  - Delivery

# Looking at a disruptor in another space



Developing Mobility as a service (MaaS)

Business Model: Tech Stack

Capital light model turns Unity into a tech company, not a car company

"Selling the idea of a car, not producing the car itself

#### SNC LAVALIN

# PPP's

 Big bet on US, UK and Canadian PPP's to restructure ownership

### Blockchain

 Develop Blockchain-based marketplace for contractors to enable agile project formations

# Capital-light

 Trial capital light, tech-stack business model to drive sound expansion in emerging market

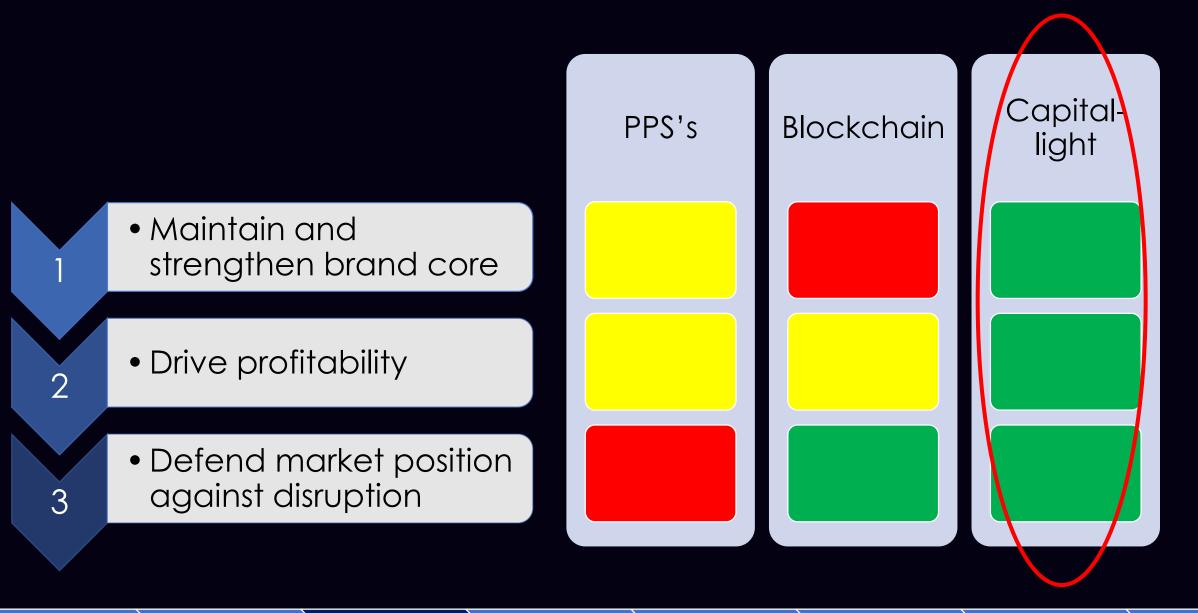
### Evaluation criterias

Maintain and strengthen brand core

Drive profitability

Defend market position against disruption

### Evaluating the alternate routes



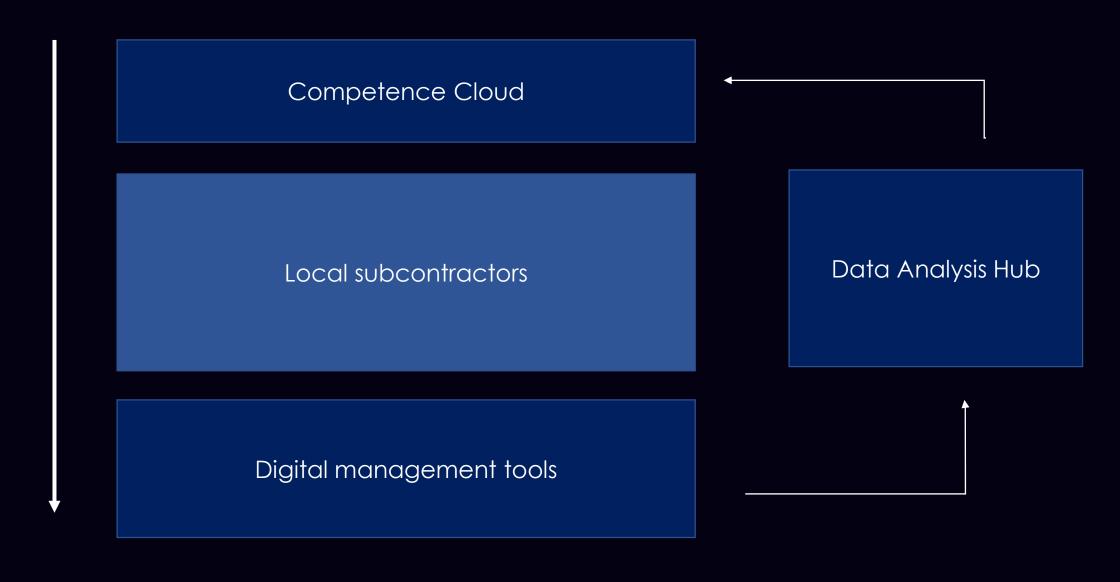
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# Applying the Tech stack business model



# Explaining the recommendation in three steps

#### Create Techstack

Migrating organizational competence and reputation to cloud

<u>Local contractor partnerships</u>

Develop online "marketplace"

#### <u>Data management</u>

Establish data ownership for performance tracking, predictive maintenance market intelligence

Key objectives

Knowledge sharing and scaling

Expand market and cut costs

Predicting potential growth point

# Three main building blocks for implementation

Knowledge sharing and scaling

Expand market and cut costs

Predicting potential growth point

Tech Stack

Outsourcing construction

Centralize data

### Emphasize SNC LAVALIN competitive advantage

Tech Stack

S







 SNC-Lavalin cloud aggregating organizational memory

- Project management team
- HR
- IT

- Building cloud platform
- Restricting acess based on hierarchy
- Employee informed

\$50m

#### Transforming towards capital light model

Outsourcing construction

S







 Partnership with local contractors (SMEs) through partnership platform

- IT
- HK

- Partnership for open bidding
- Setting threshold for quality and experience
- Recruitment with international background

- \$25m
- \$5m
- Increase budget \$1-5m

### Exploring new growing points with Atkins post-aquistion

Centralize data







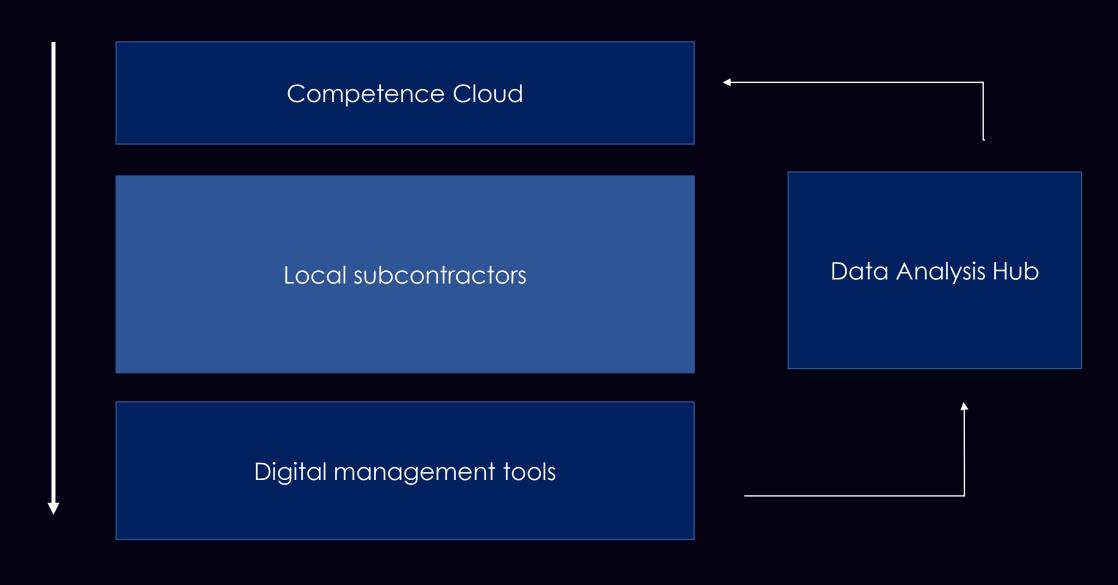


 Integrate data from new model with Atkins database  New team formed by Atkins and Lavalin's data Analysts

- Synergy in tapping Atkins technology data
- Predictive maintenance
- Performance tracking

• \$20m

# Applying the Tech stack business model



### Timeline

Costs (\$) 2019 2020 2021 2022 2023

SNL LAVALIN Cloud – 50m

Partnerships in new markets

Growing point

Data integration

Data Exploitation

# Costs of implementation

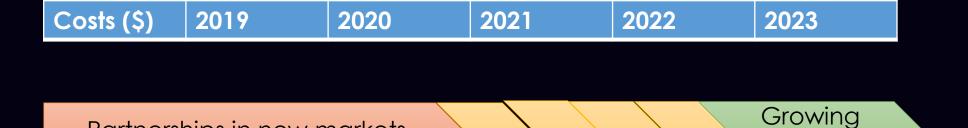
Costs (\$) 2019 2020 2021 2022 2023

SNL LAVALIN Cloud – 50m

Tech stack	2019	2002	2021	2022	2023
Building cloud	50	7	7	7	7
Sum	50	7	7	7	7

# Costs of implementation

Partnerships in new markets



point

**Outsourcing construction** 2002 2021 2022 2023 2019 Recruitment Partnership system 9 30 Build bidding platform 25 **Quality control** 32 Sum 11 11 11

# Costs of implementation

Costs (\$)	2019	2020	2021	2022	2023

Data integration

Data Exploitation

Centralised data	2019	2002	2021	2022	2023
Collecting and monitoring data	20	20	20	20	20
Sum	20	20	20	20	20

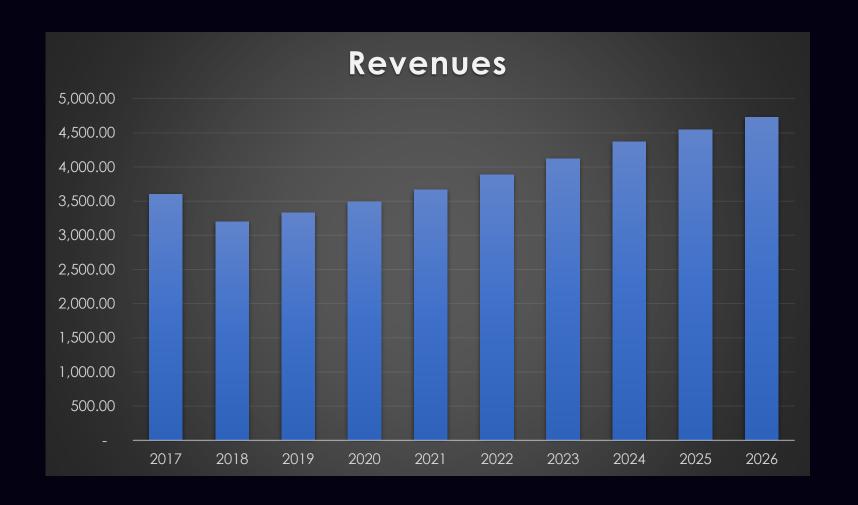
# Total costs of implementation

Total investments	2019	2002	2021	2022	2023
Tech stack	50	7	7	7	7
Outsourcing construction	32	11	11	11	11
Data integration with Atkins	20	20	20	20	20
Total	102	38	38	38	38

Total funds needed: \$245M

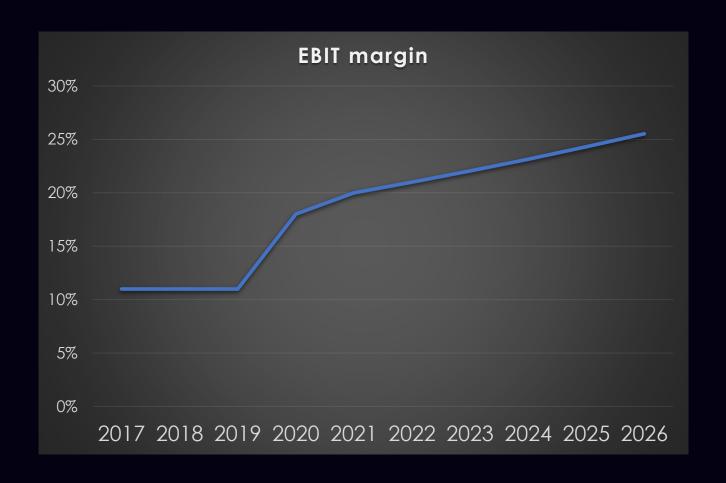
Covered by cash flows and internal funds

### Revenue breakdown



CAGR of 5% 2018-2026

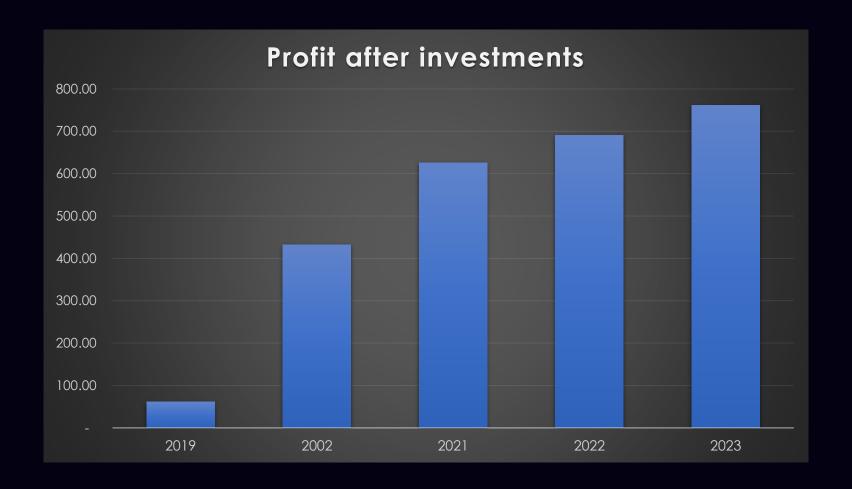
#### Shift in operating expenses resulting in improved margins



EBIT margin increasing from 11% to over 25% in ten years

Less fixed costs >
increased flexibility

#### Profit



# Investor perspective

Keep dividend yield to satisfy investors

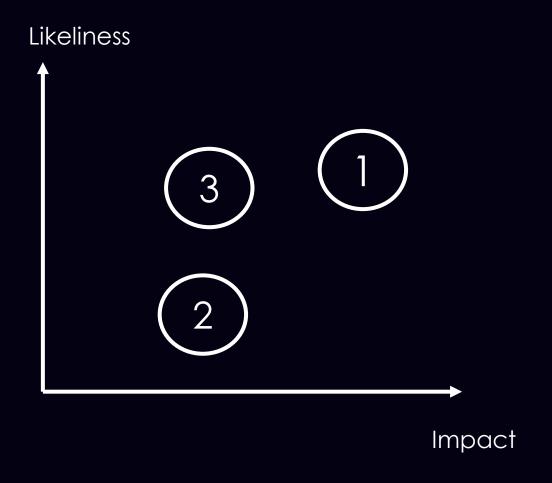
100% reimbursable in EDPM

→ less risk

EPS improved as share remain the same but earnings increase

Capital light model good at facing economic downturns thanks to less fixed costs > less volatile

# Risks and Mitigations



Risk	Mitigations
1.Quality assurance with new market entry	Only pre-approved contractors to bid on the marketplace
<ol><li>Competition copying business model</li></ol>	Reputation and first mover advantage hard to copy
3. Interal resistance to change in business model	Incremental change on top of existing business

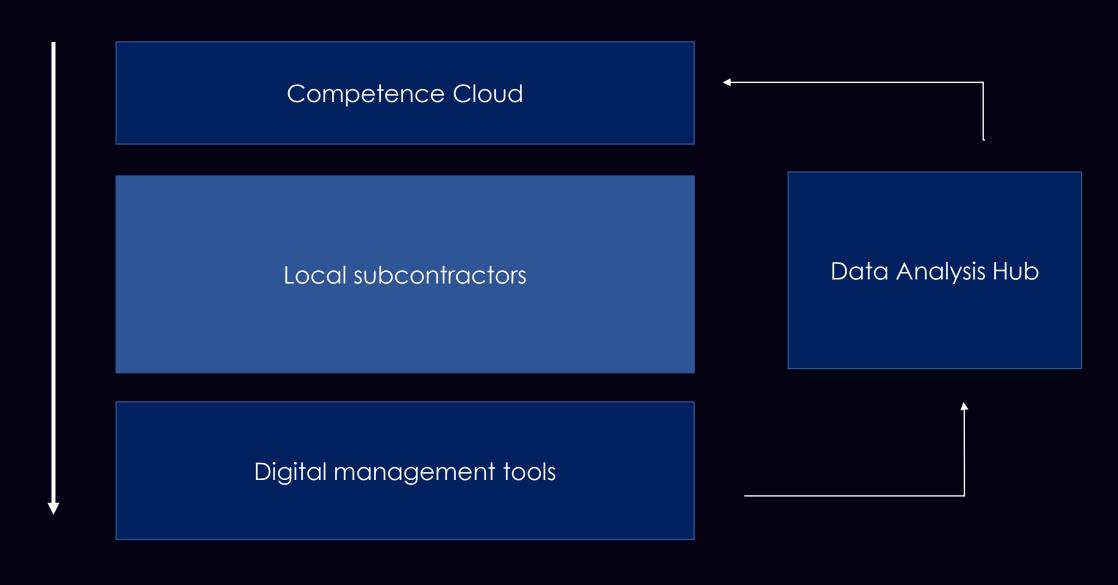
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#### SNC LAVALIN



Digitalizing the business model



Leveraging the core competences



Enabling continued growth

### Creating the possibility for a change in position

