

Starting at the Source

Migros as a Pioneer for a Sustainable Supply Chain

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World's most
sustainable
Retailer*
2018

About Migros

Switzerland's ...

... largest retail company

... largest supermarket chain

... and largest employer

One of the forty largest retailers in the world



Roland Schenkel
Owner of Migros

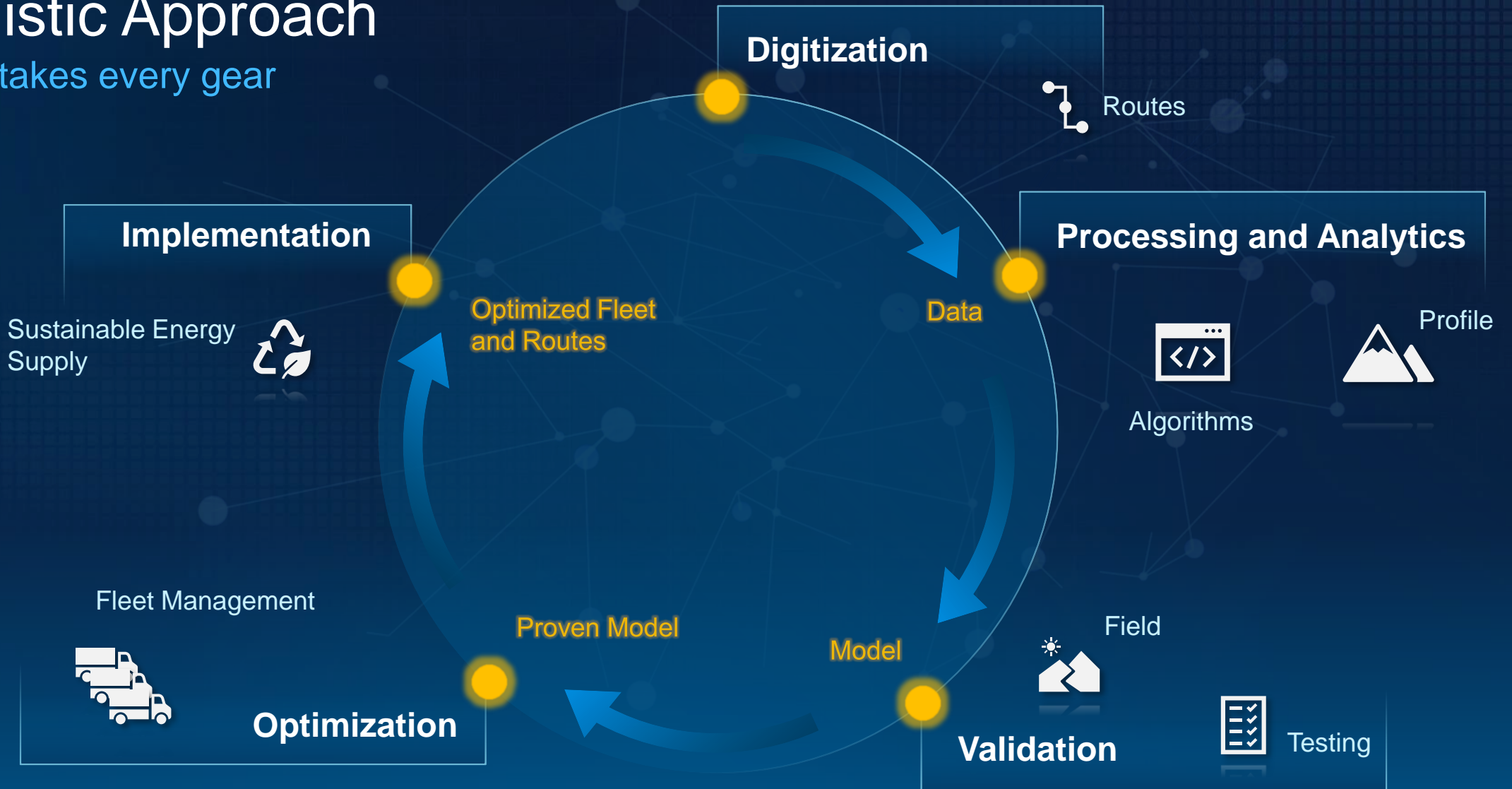
Beeing a Pioneer

As a sustainable retailer



Holistic Approach

It takes every gear



Tower as a solution

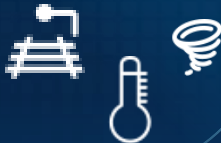
An important part of the whole

Challenges

Lack of
Transparency



Risks



THE
SCIENCE
OF
WHERE

Single Point
of Truth

Early Warning
System



M





- Dispogruppe
- Absender
- Empfänger
- Einsatzpriorität
- Fahrzeug
- Frachtführer
- Frachtzahler
- Warengruppe
- Zeiträumen
- Auftragsnummer, Tournummer



23'010 km

Distanz

68'008 kW/h

Energiebedarf

17'682 kg CO²

Emissionen CO²

4'406 kg CO²

Optimale CO² Emissionen

Tour	Total Distanz	Auslastung	Ist: Treibstoff Typ	Ist: Treibstoff Verbrauch	Ist: CO ² Emission	Optimal: Treibstoff Typ	Optimal: Treibstoff Verbrauch	Optimal: CO ² Emission
9950838	192 km	53%	Diesel	66 l	172 kg CO ²	Elektro	318 kW/h	26 kg CO ²
9951648	211 km	49%	Diesel	60 l	157 kg CO ²	Elektro	294 kW/h	25 kg CO ²
9951649	178 km	38%	Diesel	57 l	149 kg CO ²	Elektro	274 kW/h	23 kg CO ²
9951651	246 km	47%	Diesel	69 l	180 kg CO ²	Elektro	370 kW/h	32 kg CO ²
9951652	132 km	0%	Diesel	29 l	76 kg CO ²	Elektro	143 kW/h	12 kg CO ²
9951659	346 km	75%	Diesel	104 l	272 kg CO ²	H2	31 kg	163 kg CO ²
9951674	352 km	29%	Diesel	91 l	237 kg CO ²	Elektro	463 kW/h	39 kg CO ²
9951676	14 km	45%	Diesel	4 l	10 kg CO ²	Elektro	12 kW/h	1 kg CO ²
9951677	211 km	40%	Diesel	51 l	133 kg CO ²	Elektro	273 kW/h	23 kg CO ²
9951678	422 km	44%	Diesel	108 l	281 kg CO ²	Elektro	570 kW/h	49 kg CO ²
9951679	88 km	71%	Diesel	28 l	73 kg CO ²	Elektro	145 kW/h	12 kg CO ²
9951681	150 km	59%	Diesel	51 l	132 kg CO ²	Elektro	246 kW/h	20 kg CO ²
9951682	248 km	45%	Diesel	79 l	206 kg CO ²	H2	23 kg	124 kg CO ²
9951683	102 km	50%	Diesel	36 l	94 kg CO ²	Elektro	179 kW/h	15 kg CO ²
9951690	208 km	38%	Diesel	70 l	182 kg CO ²	Elektro	350 kW/h	29 kg CO ²
9951691	179 km	40%	Diesel	54 l	140 kg CO ²	Elektro	281 kW/h	24 kg CO ²
9951692	186 km	36%	Diesel	65 l	169 kg CO ²	H2	19 kg	103 kg CO ²
9951721	128 km	30%	Diesel	40 l	103 kg CO ²	Elektro	198 kW/h	17 kg CO ²
9951740	139 km	48%	Diesel	44 l	114 kg CO ²	Elektro	205 kW/h	17 kg CO ²
9951742	142 km	44%	Diesel	51 l	133 kg CO ²	Elektro	237 kW/h	20 kg CO ²
9951745	78 km	50%	Diesel	24 l	61 kg CO ²	Elektro	116 kW/h	10 kg CO ²
9951746	412 km	33%	Diesel	102 l	267 kg CO ²	Elektro	546 kW/h	47 kg CO ²

Elektro

H2

CNG

Diesel

TOUREN

Tour	Distanz	Fahrzeug
9950038	192010	CUR08
9951648	210810	ZIHE10
9951649	177810	WIN03
9951651	246210	EUM01
9951652	131510	ZIHE03
9951659	346410	PRO02
9951674	352210	KRU02
9951676	137110	ZIB01
9951677	210610	ZIHE12
9951678	427110	CUR01
9951679	87610	CUR04

FACTS

Energiebedarf

Elektro 391.23 kWh
H2 891.11 kWh
CNG 1138.47 kWh
Diesel 910.78 kWh

Kraftstoffverbrauch

Elektro 483.4 kWh
H2 26.7 kg
CNG 87.2 kg
Diesel 90.8 l

CO₂ Emission

Elektro 39.1 kg
H2 142.6 kg
CNG 232.2 kg
Diesel 236.8 kg

Reichweite

Elektro ca. 352 km (100 %)
H2 ca. 352 km (100 %)
CNG ca. 352 km (100 %)
Diesel ca. 352 km (100 %)

ENERGIEBEDARF / BATTERIEKAPAZITÄT



HÖHENPROFIL

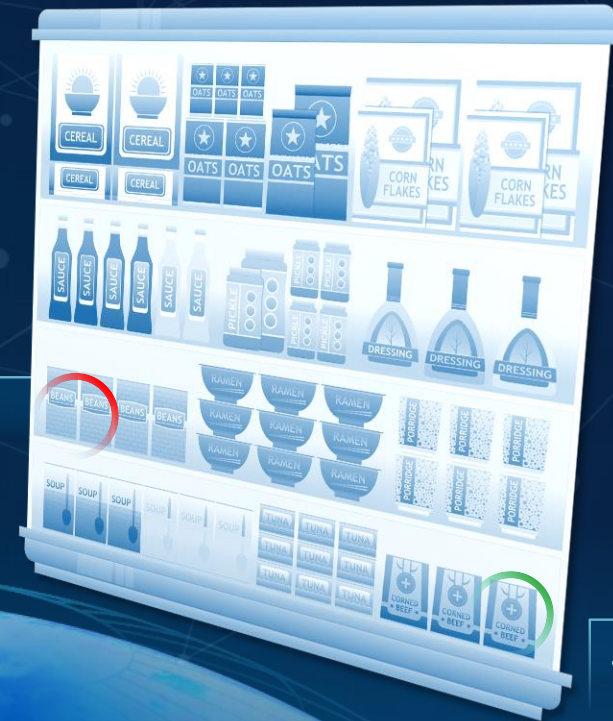


LEISTUNG / VERBRAUCH



Sustainability at customer's fingertips

Enable sustainable purchasing decisions



5 \$

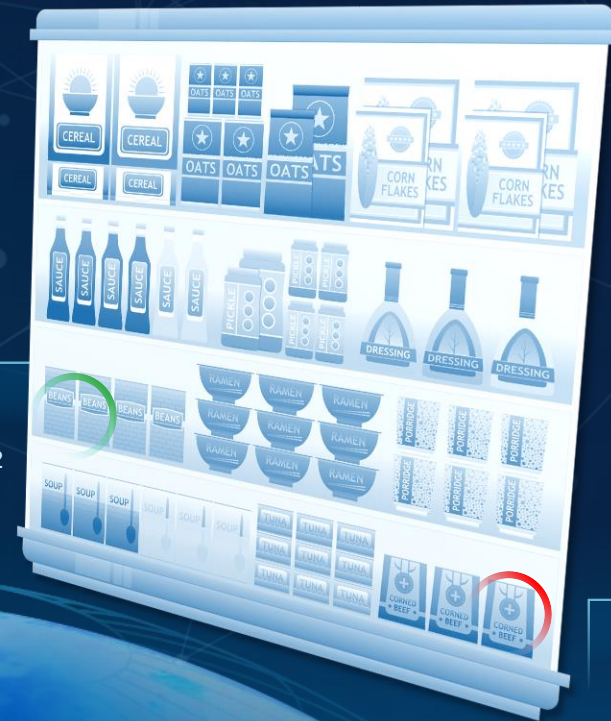
4 \$

Sustainability at customer's fingertips

Enable sustainable purchasing decisions



5 \$
10 kg CO₂



4 \$
15 kg CO₂

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