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.addepto

How we Cut Transportation Costs and Optimized Logistics using **Data & AI**



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Driving changes through AI & Data solutions

About Us



AI & Big Data solution provider for
global Enterprises

Mission



Streamline and automate the world with
AI-powered technologies

Trusted us



Case Study

Case study

Client's profile

- Industry: **Manufacturing**
- Revenue: **\$12 bln**
- Size: **48k employees**



Case study

Challenges



**Cutting
Transportation
costs**



**Cutting
Storage costs**



**Optimize Logistics
Planning Process**



**Improve
Supply Chain
Visibility**



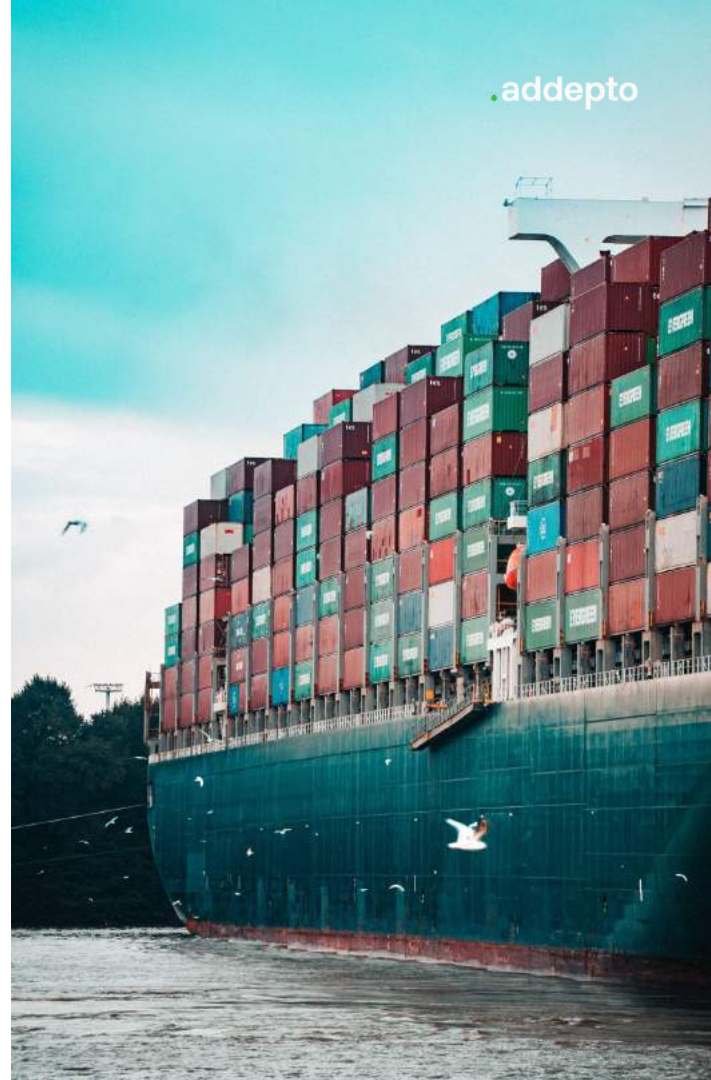
**Increase
Clients
Satisfaction**

Case study

Result



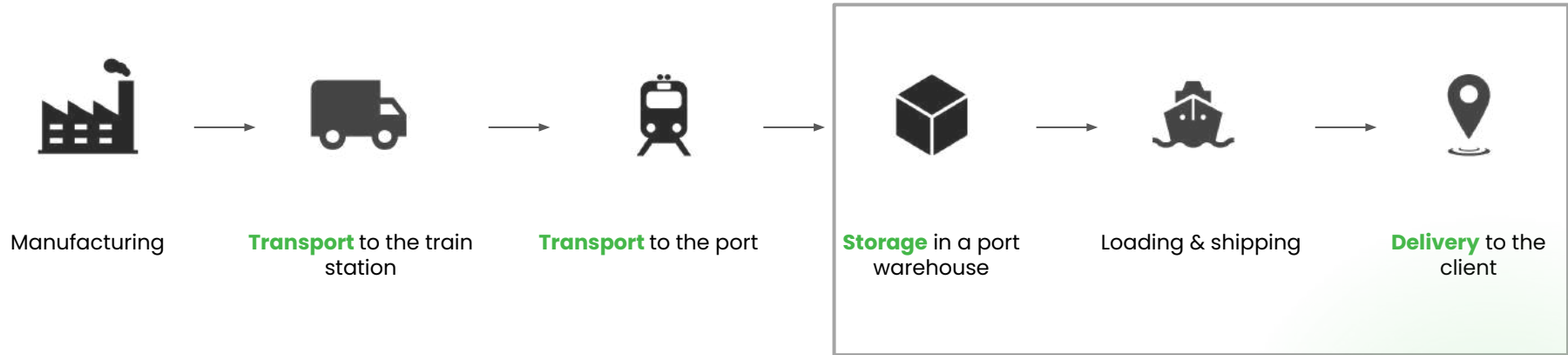
Reduced transportation and storage costs by ~\$1.8 per ton (9%)



How did we achieve it?

Case study

1. Focus area



Case study

2. Information

Data



- Orders
- Transportation
- Storage
- Ports
- Vessels

Conditions



- Logistics
- Production
- Sales
- IT



Case study

3. Solution Matrix

AI Optimization Engine



Cutting **Transportation** costs



Cutting **Storage** costs



Increase Client **Satisfaction**

Data Platform



Optimize Logistics **Planning Process**

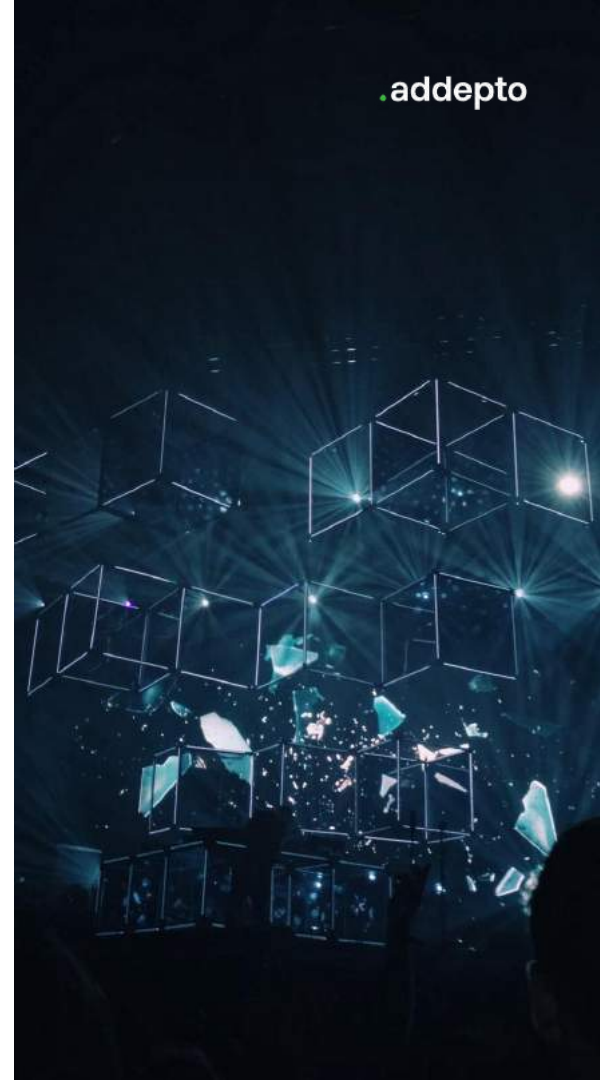



Improve Supply Chain **Visibility**


Case study


How **AI Optimization Engine** helps


- **Analyzes millions of combinations of order delivery**
- **Predicts shipment price based on seasonality**
- **Compares direct and indirect shipments costs**
- **Compares storage costs in loading and destination port**
- **Chooses the most optimal unloading and loading period**





 **Optimisation Results**


 Current Scenario

 Parameters

 Input Data

 Reports

 Run optimisation

 Rachel Dole

Optimisation date: 20.02.2021 | Port: Gebze | Period: March 2021 | [Update scenario](#)



Scenario: Optimal	Scenario: On time	Scenario: The cheapest	Scenario: Stocks
Deliveries on time: 93%	Deliveries on time: 100%	Deliveries on time: 85%	Deliveries on time: 87%
Freight cost [\$/t]: 20.97	Freight cost [\$/t]: 22.15	Freight cost [\$/t]: 20.52	Freight cost [\$/t]: 21.12
Stock cost POL [\$/t]: 0.3	Stock cost POL [\$/t]: 0.3	Stock cost POL [\$/t]: 0.3	Stock cost POL [\$/t]: 0.0
Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.0
Volume [t]: 178 817	Volume [t]: 178 817	Volume [t]: 176 817	Volume [t]: 176 817
Total cost [\$]: 3 778 579	Total cost [\$]: 3 987 224	Total cost [\$]: 3 689 011	Total cost [\$]: 3 734 375





Scenario: Optimal	Scenario: On time	Scenario: The cheapest	Scenario: Stocks
Deliveries on time: 93%	Deliveries on time: 100%	Deliveries on time: 85%	Deliveries on time: 87%
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Stock cost POI [\$/t]: 0.3	Stock cost POI [\$/t]: 0.3	Stock cost POI [\$/t]: 0.3	Stock cost POI [\$/t]: 0.0
Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.1	Stock cost POD [\$/t]: 0.0
Volume [t]: 176 817	Volume [t]: 176 817	Volume [t]: 176 817	Volume [t]: 176 817
Total cost [\$]: 3 778 579	Total cost [\$]: 3 987 224	Total cost [\$]: 3 699 081	Total cost [\$]: 3 734 375



Optimisation date: 20.02.2021 | Port: Gatzbo | Period: March 2021 | Update scenario

Sibenik/Triest ✕

ID	Client	Port	Product	Amount	Incoterms	InPort date	Deadline from	Deadline to	Stock cost [€]	
15	A	Sibenik	X1	300	CFI	25.02.2021	01.03.2021	10.03.2021	0	Delete
21	A	Sibenik	X2	200	CFI	20.02.2021	01.03.2021	10.03.2021	0	Delete
27	C	Sibenik	X1	4700	DDP	07.02.2021	15.03.2021	25.03.2021	0	Delete
105	C	Sibenik	X2	400	DDP	01.02.2021	15.03.2021	25.03.2021	500	Delete
96	B	Triest	X1	1000	FCA	15.02.2021	10.03.2021	30.03.2021	0	Delete
93	B	Triest	X2	498	FCA	10.02.2021	10.03.2021	30.03.2021	0	Delete
Available orders										
96	B	Triest	X1	1000	FCA	15.02.2021	10.03.2021	30.03.2021	0	Add
93	B	Triest	X2	498	FCA	10.02.2021	10.03.2021	30.03.2021	0	Add

Cancel
Save

Varna

Salerno

Valencia

RD Rachel Dole



Scenario: Optimal	Scenario: On time	Scenario: The cheapest	Scenario: Stocks
Deliveries on time: 92%	Deliveries on time: 100%	Deliveries on time: 85%	Deliveries on time: 87%
Freight cost [\$/t]: 20.97	Freight cost [\$/t]: 22.15	Freight cost [\$/t]: 20.52	Freight cost [\$/t]: 23.12
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Optimisation Results

Current Scenario

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Optimisation date: 20.02.2021
 Port: Gabze
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Update scenario



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Cargo Pair **Stock**



ID	Client	Port	Product	Amount	Incoterms	InPort date	Stock cost [\$]	Free storage left
15	A	Sibenik	X1	300	CFR	25.02.2021	0	30
21	A	Sibenik	X2	200	CFR	20.02.2021	0	35
27	C	Sibenik	X1	4700	DOP	07.02.2021	0	6
105	C	Sibenik	X2	400	DOP	01.02.2021	500	-8
98	B	Triest	X1	1000	FCA	15.02.2021	0	35
93	B	Triest	X2	498	FCA	10.02.2021	0	30

Results

Results



Reduced transportation and storage costs by **\$1.8 per ton (9%)**



Increased deliveries on time by **6%**



Reduced time of planning by **3x**



Reduced Gas Oil (MGO) consumption by **5%**

Recommendations

Optimize part of your logistics

Start with maritime logistics. Then scale it on other ones.

Focus on 1 area

One loading port or country. Then scale it on other ones

Structure and clear all your Conditions

Convert every "it depends" to the formula

Share results with Business users

Many hidden and complex conditions will arise during testing

Take care of Data Quality

Understand single value in your Data

Thank you!