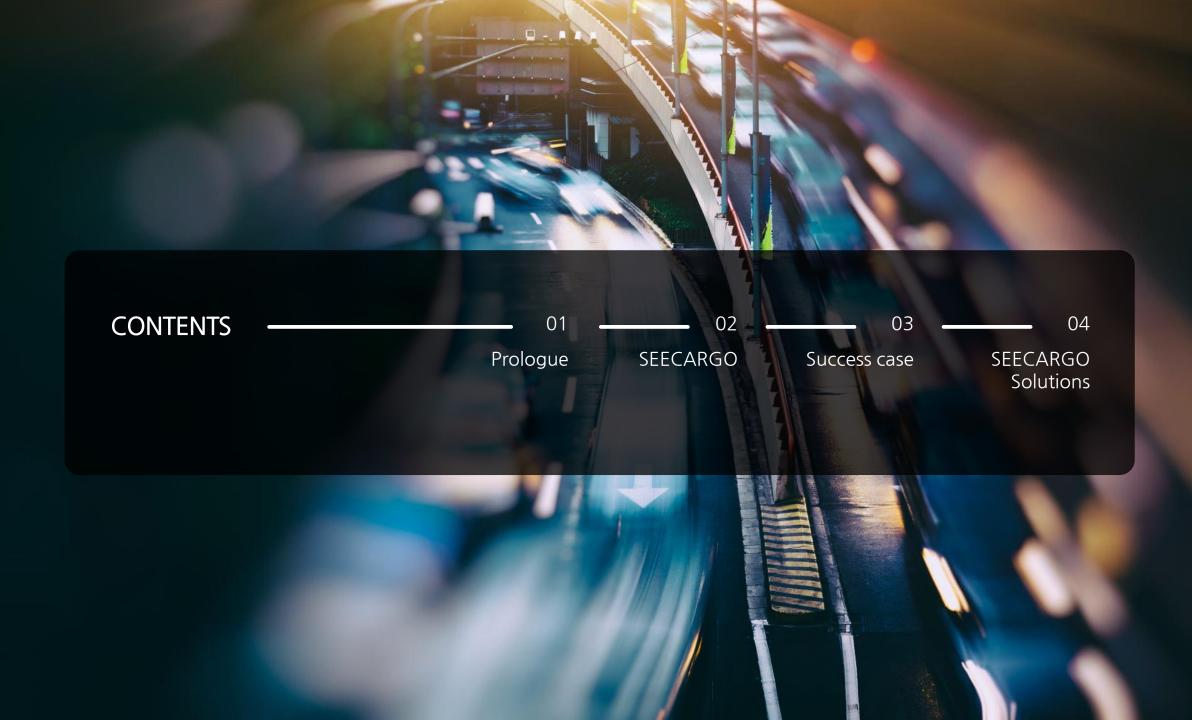
Go Faster, Go Smarter with SEECARGO: The future of AI-based Routing solution

S=CARGO

Comprehensive Solution for Last Mile Vehicle Routing & Monitoring

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SLSolution Co., Ltd.

| CEO | Hyojoon CHA | |
|-----------------------|--|--|
| Foundation date | 1 st July 2011 | |
| Business Field | Logistics solution development | ᄊᆘᄊᆘᆕᅘᄔᄛᆘ |
| Address | ShinKongdeok-dong, Mapo-gu, Seoul, South Korea | └──── ┉는 매경 |
| Tel Number | +82 070-4354-4900 | |
| Homepage | www.slsolution.co.kr | |
| Key History | 2011 Company established 2012 Certification of venture company 2017~2024 SKTelecom T.O.P system operation and mainternance 2017 S CARGO TMS Engine 1.0 Development 2019 Saas based S CARGO solution development 2020 ISO 9001 certification 2020 Patent acquired for vehicle routing method and apparatus using a noise injection technique. 2020 S CARGO Trademark registration in Korea | <mark>ඊ</mark> 농협 상다로 ඊ농협 상다로 |
| | 2021~2024 Develop. of an operating system for the construction and operation of an urban joint logistics and parcel terminal. 2022 S CARGO TMS engine copyright registration 2022~2024 NH Hanaro mart system development and operation 2023 Real-time / Reserved dispatch engine development | TAESUN |

Clients







SEECARGO Solutions





SEECARGO TMS/FMS

SCARGO **TMS/FMS** provides the best business competitiveness

Operation Efficiency

Efficient order / dispatch management

Automatic dispatch

- Providing efficient and systematic order management and dispatch management functions.
- Completing dispatch for 3,000 delivery locations and 100 vehicles within 5 minutes.
- Reducing driving distance and the number of operating vehicles.

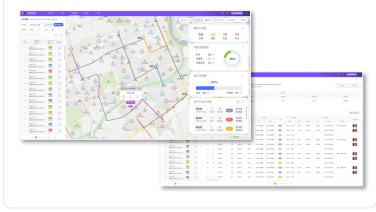


Management Efficiency

Dispatch management

Real-time monitoring

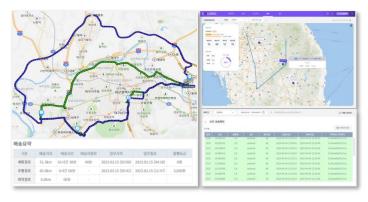
- In the driving schedule plan, it is possible to substitute drivers, exchange delivery locations between drivers, change delivery sequences, and set destinations per driver. --> Driver participation automation
- Real-time monitoring and control for status tracking



Cost Efficiency

| | # Driving stat. | # Work stat. |
|---|---------------------------------|------------------------------------|
| | | |
| • | Reducing driving distance and t | ravel time through optimized |
| | dispatch and routing. | |
| • | Minimizing paperwork through | the provision of driving records a |

- Minimizing paperwork through the provision of driving records and work logs.
- Business Intelligence support through dashboards.



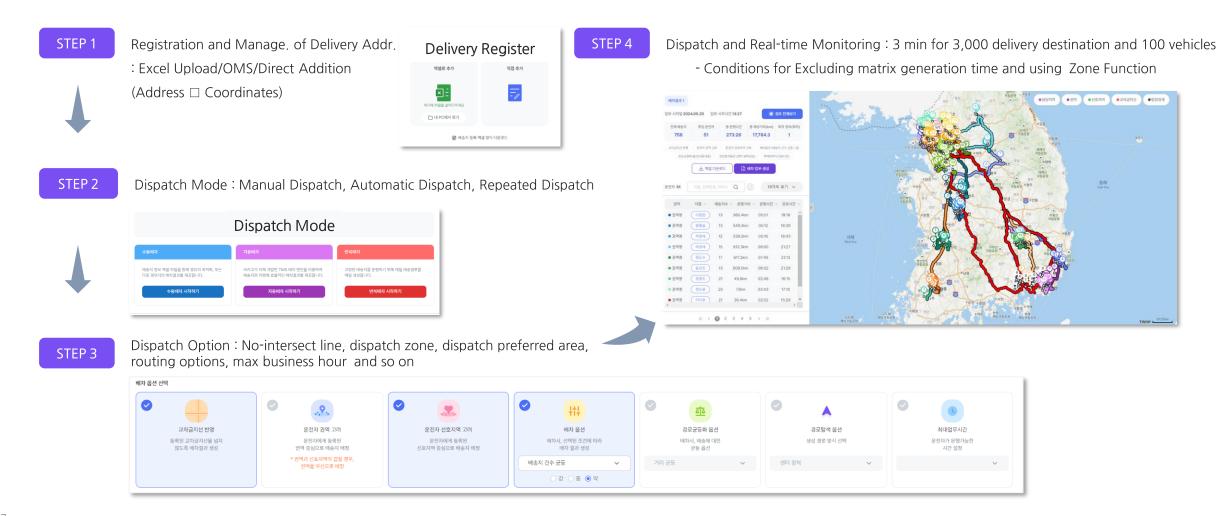


Operation Efficiency

Efficient order / dispatch management

Automatic dispatch

You can register your delivery destination with just a few clicks and select the vehicles to use for delivery





Management Efficiency

Dispatch management

Real-time monitoring

we offer delivery destination exchange between drivers, driver replacement, real-time delivery monitoring, and emergency dispatch.

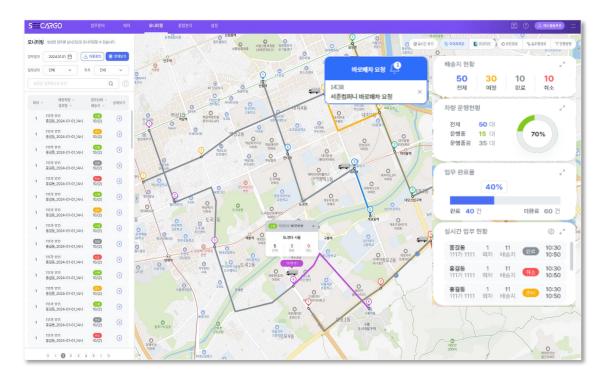
Exchange delivery destination

- Interchange delivery destination between drivers using drag & drop
- Driver can modify delivery order on mobile App

| 업무 시작일 20 3 | 24.01.01 | 법무 시작시? | 간 14:20 | | 경로 전체보기 | | 배송지 97 | 'n | | 20개 | Q ⓒ 빅보기 ~ |
|------------------------------|-----------------------------------|--|------------------------------|---|---------------------------|---|-----------|--|------------------|----------|----------------|
| 전체 배송지 30 | 투입 운전지 4 | | ·행시간 3:12 | 총 예상거리 15.217 km | 회차 정보 1회차 | | 번호 | 배송지명 ~ | 화물개수 ~ | 배송유형 ~ | 도착시간 ~ |
| 바금지선 반영 | 운전자 권역 고 | 리 운전지 | 아 성호자역 고려 | 비 배차옵션 (배 | 송지 건수 균등 / 강) | 1 | ыH | 송지1 | 12 | 배송 | 14:50 |
| 경로균등화 | 옵션(내용내용) | 경로탐색읍 | 응선 (센터 왕복 | 경로) 최대업무 | 시간(8시간) | | 1 | 배송지1 | 12 | 회수 | 14:50 |
| | | | | | | | | | | | |
| L. | ▶ 엑셀 다운희 | <u>15</u> | | 🗈 배차 업무 생성 | 8 | | 1 | 배송지1 | 12 | 배송 | 14:50 |
| শ্রম ও প্র | 이름, 전화번 | E, 아이디 | | | 역 보기 ~ 완료시간 ~ | | 1 | 배송지1 배송지1 | 12 | 배송 배송 | 14:50 14:50 |
| শ্রম ও প্র | 이름, 전화번 | 호, 아이디 지수 ~ 극 | a | ्र 20개 | 씩보기 ∨ | 4 | | | | | |
| 전자 3명 전역 0 | 이름, 전회번 기름 ~ 배송 | 토, 아이디 지수 ~ (| Q £लॅंगेन ~ | ② 20개 운행시간 ~ | 씩 보기 💙 완료시간 🗸 | 4 | 1 | 배송지1 | 12 | 배송 | 14:50 |
| 1자 3명 0 권역 0 1 - 문 | 이름, 전화번 이름 ~ 배왕 배송지1 | 5 5 | Q 운행거리 ~ 12 | ② 20개 운행시간 ~ 배송 | 씩 보기 > 완료시간 > 14:50 | | 1 Drag | 배송지1 | 12 • : transf | | 14:50 |
| 전자 3명 권역 0 - - 종 | 이름, 전화번 기를 ~ 배송 배송지1 홍길동 | 호, 아이디 지수 · · · · · 5 5 5 5 5 5 | Q 운행거리 ~ 12 5.294km | 20개 운행시간 ~ 배송 01:20 | 원료시간 ~ 14:50 14:50 | | 1 Drag | ilien ₩extin #extine #extine #extine | 12 • : transf | 배송 | 14:50 |

Real-time monitoring of operating vehicles and support for emergency dispatch

Real-time monitoring of scheduled routes, current routes, delivery progress for all operating vehicles.Allocation of emergency orders to vehicles capable of handling them.





Cost Efficiency

Driving stat.

Work stat.

Provide various analysis and statistic relate to dispatching and operation, and carbon emissions

Drive Stat.

• Ave num of tasks, Ave num of deployed vehicles, Ave allocation index, task completion rate



• Comparison of distance, time, fuel costs, and toll fees between planned routes and actual driving routes

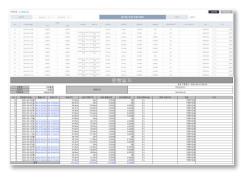


Work Stat.

• Fuel costs, toll fees, driving time/distance, etc.



• Report : Comprehensive report and work log for drivers

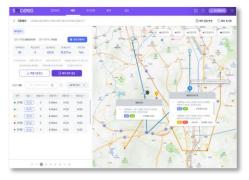


Carbos Emissions

- Cumulative/average carbon emissions statistics by period, vehicle, and driver.
- Statistics comparing actual carbon emissions to planned emissions



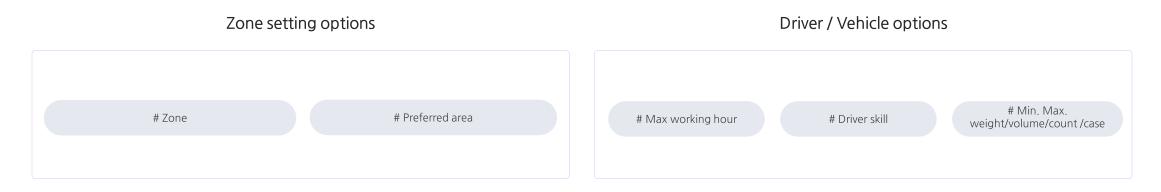
- Developing carbon emission reduction driving routes
- Considering factors such as road gradient and driving habits





SEECARGO TMS Engine key functions







Various equalization options

weight/volume/count /case

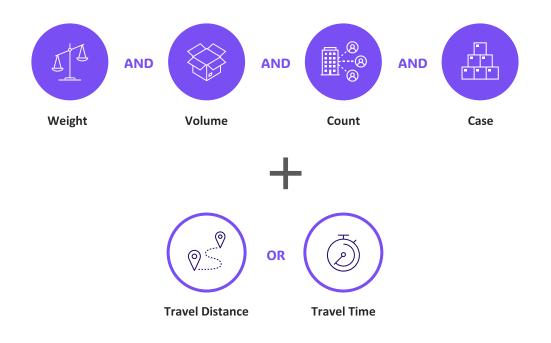
distance / time

delivery addresses that share the same coordinates.

Provide a variety of equalization options to ensure equitable work for drivers and dispatching the same coordinates.

Equalization

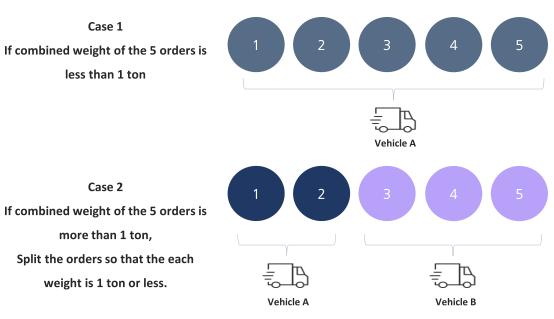
- Each item can be set with a value from 0 to 5(0:Off, 5:Max)
- Users can set weights only for the items they are interested in - ex : weight 4, volume 5, count 0(off), case 0(off), distance 3



Orders with the same coordinates (address)

- When multiple orders exist from the same store, we merge them into a single order whenever possible to facilitate delivery using one vehicle.
- If the order volume cannot be delivered by one vehicle, we redistribute the delivery orders to two or more vehicles to ensure efficient delivery.

1 store orders 5 items, and delivery vehicle is a 1t vehicle





Various route optimization options

destination setting

waypoint optimization

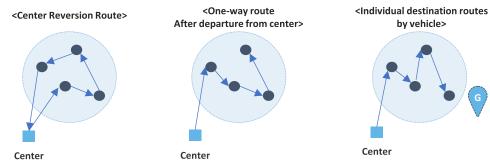
no-intersect line

prevent route overlay

pickup/delivery consideration

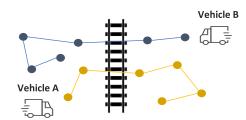
offer various optimization options including setting route destinations, optimizing delivery sequence, avoiding intersections, preventing route overlaps, and considering both pickup and delivery in dispatching.

Destination setting



by vehicle>

No-intersect line



Prevent route overlay



Generating routes considering both Pickup/delivery : Considering vehicle loading capacity (weight and volume)

D

Vehicle Info

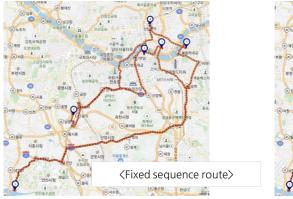
| | Weight(kg) | Volume(CBM) |
|-----------|------------|-------------|
| Vehicle 1 | 3,000 | 18 |
| Vehicle 2 | 1,000 | 6 |
| Vehicle 3 | 1,000 | 6 |

| estination | Info |
|------------|------|
|------------|------|

| | Pickup/Delivery | Volume (CBM) |
|---------|-----------------|--------------|
| Dest. 1 | Delivery | 0.036 |
| Dest. 2 | Pickup | 0.072 |
| Dest. 3 | Delivery | 3.92 |
| | • | |



Fixed sequence route / optimized route





Various route optimization options

priority delivery

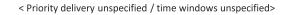
time windows

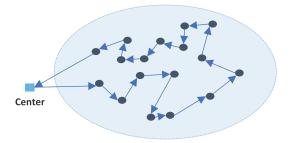
designation of vehicles

you can designate priority deliveries, specify desired delivery times, and assign vehicle groups that are suitable for each delivery location.

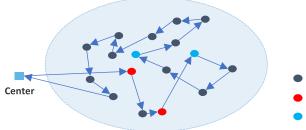
Priority delivery / time windows

- Priority destination designation
- Optimizing routes to ensure arrival within time window(the allowed delivery time)





< Designate priority deliveries / Specify desired delivery times >

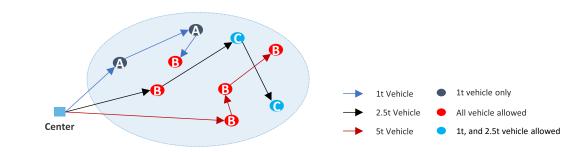


- No constraints
- Designate priority delivery
- Specify desired time window

Assigning vehicle groups to specific delivery locations

- If specific vehicles are designated for each delivery location, only those particular vehicles will be dispatched to those locations.
- vehicles : 1t vehicle, 2.5t vehicle, 5t vehicle
- cond.1 : Delivery 1,5 are accessible only through underground parking, where only 1t vehicles can enter.
- cond.2 : Delivery 7,8 have narrow access roads that prevent entry by 5t vehicles; only 1t and 2.5t vehicles can access.

| | 1t Vehicle | 2.5 Vehicle | 5t Vehicle | Designate | Category |
|------------|------------|-------------|------------|-----------|----------|
| Delivery 1 | 0 | Х | Х | 1t | А |
| Delivery 2 | 0 | 0 | 0 | All | В |
| Delivery 3 | 0 | 0 | 0 | All | В |
| Delivery 4 | 0 | 0 | 0 | All | В |
| Delivery 5 | 0 | Х | Х | 1t | A |
| Delivery 6 | 0 | 0 | 0 | All | В |
| Delivery 7 | 0 | 0 | Х | 1t, 2.5t | С |
| Delivery 8 | 0 | 0 | Х | 1t, 2.5t | С |
| Delivery 9 | 0 | 0 | 0 | All | В |





Zone

Various zone setting options

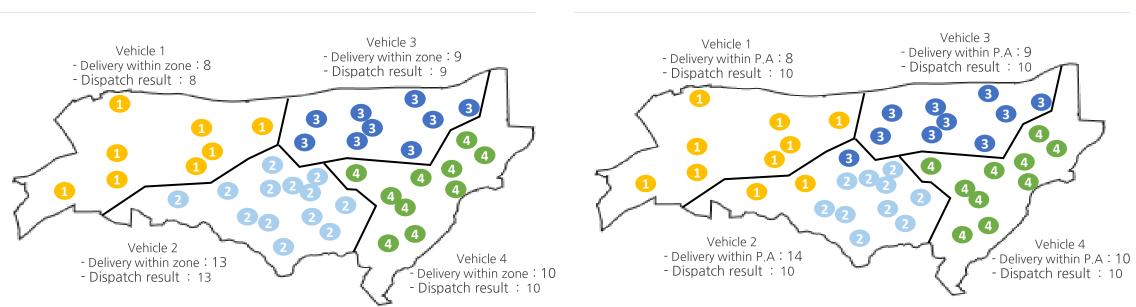
zone

preferred area

To facilitate efficient delivery, we offer zone and preferred area functions.

Zone : Delivery locations within a zone are not exchanged with other zones, and more than one vehicle can be assigned to a single zone

Preferred area : Delivery locations within preferred areas are assigned to the corresponding vehicle as a priority but may be reassigned to other vehicles for equal distribution purposes.



| Category | 1 District | 2 District | 3 District | 4 District |
|---------------------------------|------------|------------|------------|------------|
| Num of Delivery within district | 8 | 13 | 9 | 10 |
| Dispatch using Zone | 8 | 13 | 9 | 10 |
| Dispatch using Preferred Area | 10 | 10 | 10 | 10 |

Preferred area



Various driver/vehicle options

Max working hour

Driver skill

Min. Max. weight/volume/count /case

We provide functionality to set max. work hours per driver, assign tasks based on driver proficiency, and configure min. and max. dispatch criteria per driver.

Setting max. work hours per driver

• Tasks are assigned within each driver's maximum work hours

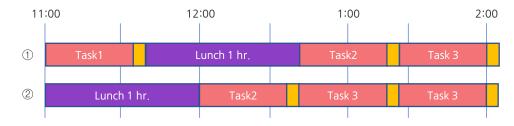
<When max. work hours are set to 8 hours>

| Vehicle No. | Scheduled Drive Distance | Scheduled Drive Time | Service Time | Center Departure | Center Arrival |
|-----------------------|-----------------------------|-------------------------|--------------|------------------|----------------|
| 서울32 가 1234 | 254.5km | 06:57 | 60 min | 07:00 | 14:25 |

< Tasks are dispatched within 8 hours >

Lunchtime / Breaktime configuration(under development)

- Automated lunchtime scheduling during task assignments.
- Considering arrival time, departure time, and travel time for each delivery location, automatic allocation of a one-hour lunch break between 11:00 AM and 1:00 PM



Driver skill level

• Assigning tasks based on driver skill level.



<Vehicle A : 120% , Vehicle B : 80%>

Setting min. and max. dispatch criteria per driver/vehicle.

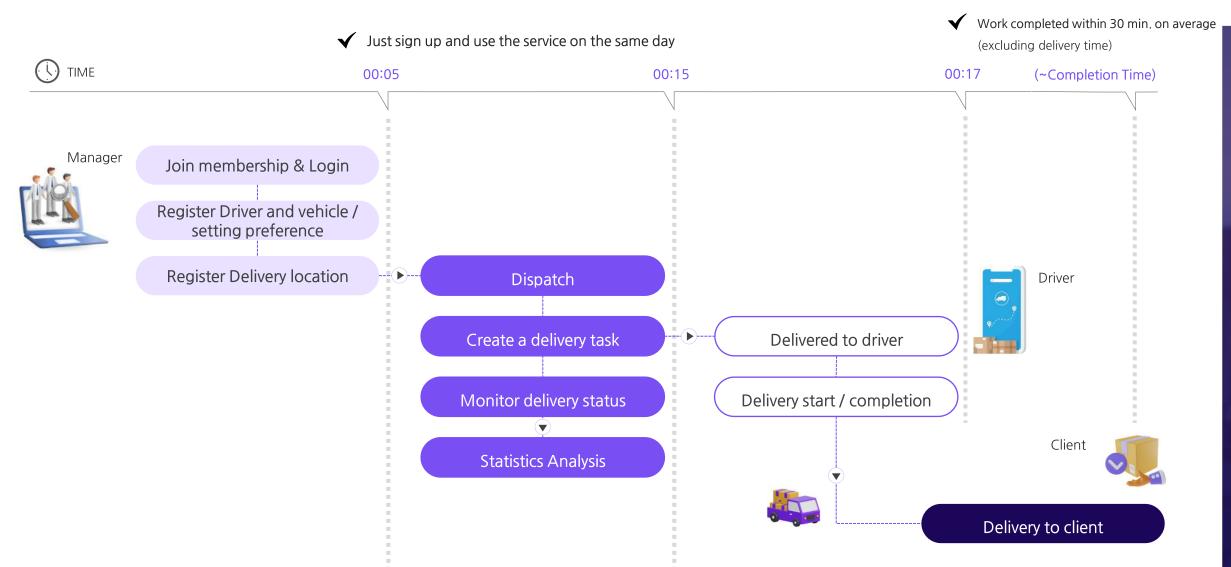
- Weight : Must be at least 100kg and must not exceed 200kg
- Volume : Must be at least 0 CBM and not exceed 6.0 CBM
- Count : Must be at least 100 boxes and cannot exceed 150 boxes
- Case : at least 30 places to visit and not more than 100 places to visit

| We | ight | Volu | ume | Co | unt | Case | | | |
|------|------|------|------|------|------|------|------|--|--|
| Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | | |
| 100 | 200 | 1.0 | 6.0 | 100 | 150 | 30 | 100 | | |

15

02 Solution | SEECARGO

Service Process

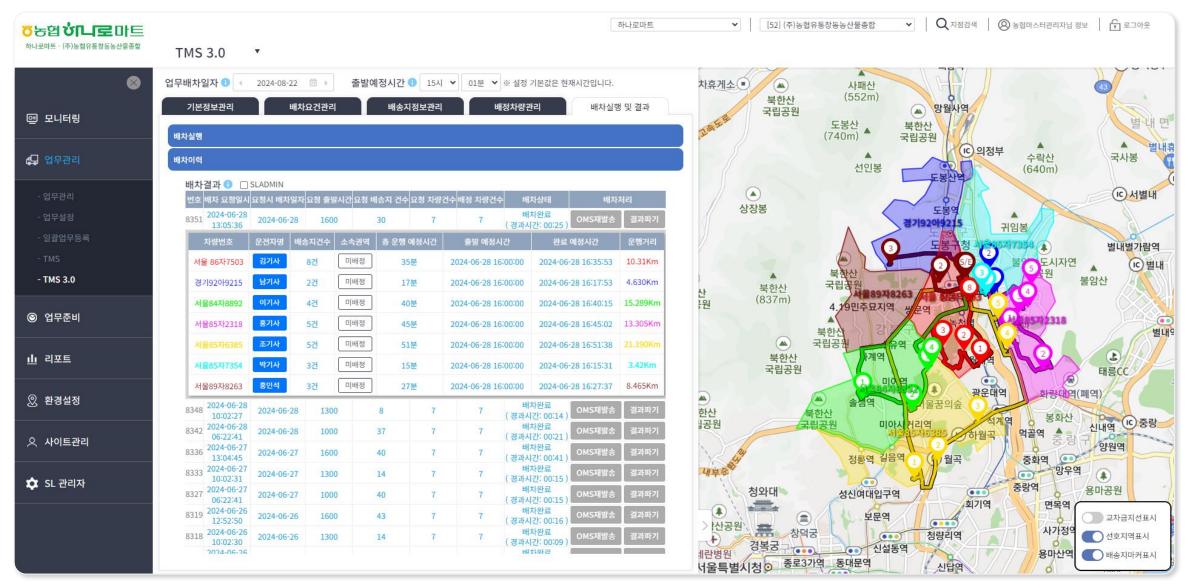




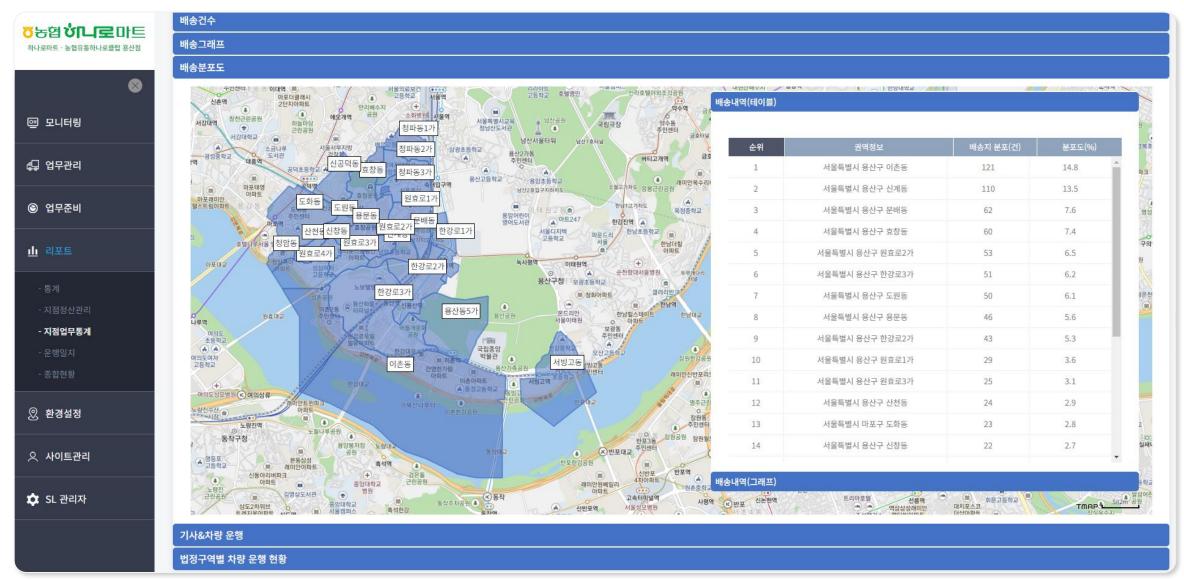
Hanaro Mart, a large market and local agricultural cooperative mart, utilizes the SEECARGO service to collect orders, coordinate dispatch for each vehicle, facilitate delivery through the app, and manage the results. SEECARGO is utilized by approximately 70 locations to manage orders and make deliveries to customers.



Manager Web Screen : Dispatch result



Manager Web Screen shot : Statistics





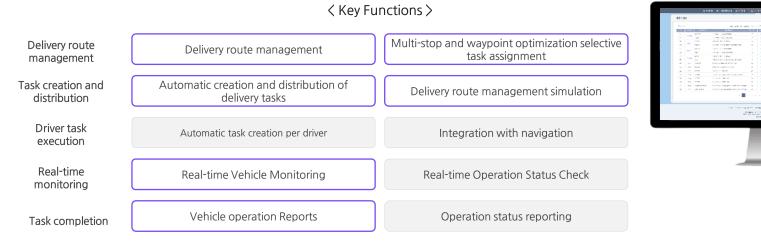
Kyungil Logistics is a 3PL logistics company responsible for delivering supplies for LF Mall. At LF Mall's request, a system has been implemented to ensure proper dispatching of vehicles and to provide evidence of operating costs (such as fuel and toll fees) based on actual mileage. Approximately 90 vehicles are subject to fixed dispatching and real-time monitoring on a daily basis

Before

After

A solution capable of managing delivery destinations, drivers, delivery tasks, and fuel expenses per vehicle is needed to perform nationwide delegated delivery tasks.

- Shortening delivery management tasks through delivery destination management and automatic route generation.
- Enhancing efficiency and accuracy in settlement tasks by calculating route-based driving fees for delivery tasks based on real-time delivery vehicle locations.
- Predicting and immediately responding to issues related to delivery task assignments through the utilization of delivery route simulation.





Manager Web Screen : Real-time monitoring

| 2/11 | <u></u> 모니 | 터링 | | | | | | | | L | □창투명 | <u>ه</u> لا | | | | Per | - in | 1 mil | | 경일물류 |
|------|-------------|--------|--|--------|---------|---------|----------------|-------------------------|------------|---------------|----------------|-------------|--------|-------------|---------------------------|------------|----------|---------|--------------------------------------|-----------|
| 목록이 | | | | | | | | | | << 다음 | | 이전경로 >> | | | (IC |) 선산 | | ⓒ 서군위 군 | 위고 | seem |
| 업무완료 | R000526 | 06 🗰 2 | 024-07-03 | 대구-구미? | 김천_경로 | | | | | 구미김천차량 | ⁰ ج | 김천 새로고침 | | | $\langle \rangle$ | 59211 | fine | A | | 81 |
| 배송현 | 황 | | | 배송요약 | | | | | | | | | 령 | L. | X | 0 | K 3 | | 이 군. | |
| 전체 | | 완료 | 취소 | 구분 | 배송거리 | 배송시간 | 배송지정차 | 업두 | 리시작 | 업무종료 | Ł | 통행요금 | S | 6 | Contraction of the second | Net of | | | JC 군위 | |
| 9 | | 9 | 0 | 계획경로 | 189.7km | | 01시간 30분 | | 03 (02:00) | | | 9,000원 | | 전세 | | 1 Page | | | A | |
| | | | | 주행경로 | 194.7km | | - | 2024.07. | 03 (05:38) | 2024.07.03 (| 13:09) | 8,900원 | | | | | | (10)7 | ···································· | IC |
| | | | | 최적경로 | 0.0km | 00분 | | | - | | | | | 25 | | | | | Larri | |
| 순번 | 관리자 설정순번 | | 배송지 | | 운행거리 | 운행시간 | 운행/ 도착 | 시각 출발 | 상태 | 배송시 | 각 완료 | | 500 | A | | 도립공균 | | ⓒ다부 | | |
| 출발 | 출발 | 대구선 | E | | 0.0km | | 24 | 02:00 05:38 | | 01:30 ~ 02:30 | -C.11 | | P | | Y | | 5 | | | |
| 1 | 1 | 동아구 | | | 57.8km | 3시간 18분 | 02:47 | 05:38 02:57 08:57 | | 02:27 ~ 03:27 | 08:57 | 7 | | | A | | 2 | 55 | | 팔공 국립공 |
| 2 | 2 | | | | 7.4km | 24분 | 08:57 03:17 | 03:27 | | 02:57 ~ 03:57 | 09:21 | | | | | | T | 실곡물류 | 동명동호 | |
| 3 | 3 | 구미현 | | | 10.0km | 24문 | 09:21 03:50 | 09:21 04:00 | | 03:30 ~ 04:30 | 09:48 | | | h | | | | | - | 파 |
| | | | 1 | | 2.3km | | 09:48 04:08 | 09:48 04:18 | | | | | ستنجير | ANG Y | | 성주군 | S. | 이 칠곡 하 | | 01 |
| 4 | 4 | 리복 | a man ing ing ing ing ing ing ing ing ing in | | | 27분 | 10:15 04:29 | 10:15 04:39 | | 03:48 ~ 04:48 | 10:15 | | | | R | N 3 | 4 | (45) | ⊙대구 | 고나 |
| 5 | 5 | | 별로스구미점 | | 4.8km | 0분 | 10:15 04:54 | 10:15 05:04 | | 04:09 ~ 05:09 | 10:15 | | | | | CO LEAN | | (C 성사 | | 0 |
| 6 | 6 | 구미중 | | | 5.4km | 18분 | 10:33 05:19 | 10:33 05:29 | | 04:34 ~ 05:34 | 10:33 | | | | | ⓒ남성 | | () 유천전 | | |
| 7 | 7 | | -미아울렛 | | 7.7km | 22분 | 10:56 05:58 | 10:56 06:08 | | 04:59 ~ 05:59 | 10:56 | | | | 2 | | Street - | CHE | | |
| 8 | 8 | | 지스종합 | | 18.8km | 36분 | 05:38 | 11:32 06:21 | | 05:38 ~ 06:38 | 11:32 | | 1 th | 가야산 국립공원 | | | 달성군 | ⓒ달성 | 5 | |
| 9 | 9 | 김천종 | 합 | | 1.4km | 0분 | 11:32 | 11:32 | | 05:51 ~ 06:51 | 11:32 | 2 | | A | 5 | 12 | 9 | J S | O | GF |
| 도착 | 도착 | 대구선 | E | | 75.5km | 1시간 36분 | 07:42 13:09 | | 완료 | 07:12 ~ 08:12 | 13:09 | Ð | - | 59 | ~ 고려 | 코 | | 룩현풍하이패스 | |) 진행 |

Manager Web Screen : Daily Report

| | @ 모니터링 | | ਫ਼⊒ 업무관리 | 🖓 부가서비스 | 山 리포트 | <u>ه</u> 🖸 | 금관리 오 사 | 사이트관리 | 고객센터 | 🏚 SL 관리자 | |
|----------|---------|----------------|--|---|------------------------|--------------------|--------------------|-------------------------|-------------------|------------------------------------|---------------------------------------|
| 운행일지 | | (A) norm | niti Min i i i i i i i i i i i i i i i i i | 18HE HZ HWARTS | (▲) G5대프3 | 에시 | 어딘어공전 | | × × | 응 공덕객미안 2차아파트 공덕동 주미세터 | e B |
| e | l-07-04 | 2024-07-04 🗎 > | | | | 차량번호 | | 곱씨 [0] | 엑셀 다운로드 | 주인센터 가첼스 건축 이 공격각 | [82] 경일물류 💙 |
| 차량수 : 67 | | | | 🕺 মন্ড মন্ড 🔳 🗒 🍤 | · <┘ → 문행일지 (4 |),xlsx - 제한된 •이 PC | 에 저장됨 🗸 💫 검색 | | | 손 정원 🙁 - | □ × [기획]손정원 님 정보 |
| 10 | NO | 차량번호 🗸 | 소속 🗸 | 파일 홈 삽입 페이지 레이 | 아웃 수식 데이터 구 | 검토 보기 Automate | 도움말 | | | | e |
| | 67 | AK분당차량 | 직영 | $X6 \qquad \checkmark i \times \checkmark f_x \checkmark$ | | | | | | | · 유치원 |
| | 66 | AK수원차량 | 직영 | A B C D | E F G | Н І Ј | | | Q R S | T U V | · · · · · · · · · · · · · · · · · · · |
| 6 | 65 | AK원주차량 | 직영 | 1 | | | 운행 | 일지 | | | 영자관 |
| 0 | | | | 2 | | | | | 생성 기준일시 : | 2024-08-21 (20:30) | 수변교수회관 전리관 순천관 |
| 218 | 64 | AK평택차량 | 직영 | 3 상호명 4 운전자수 | | | | 경일물류 67 | | | e (100 ass |
| 62 | 63 | 강릉헤지스차량 | 직영 | 5 운행기간 | | | | 2024-07-04 ~ 2024-07-04 | | | 숙명여자대학교 제1캠퍼스 식 |
| Han . | 62 | 갤)센터차량 | 직영 | 6 7 No 운전자 | 차량번호 | 운행횟수 | 총 예측거리 | 총 실제주행거리 | 총 예측통행요금 | 총 실제통행요금 | 사공원 스타벅스 |
| | 61 | 갤)타임차량 | 직영 | 8 67 현대판교 | 현대판교차량 | 1 | 129.2km | 111.9km | 12,000원 | 7,900원 | 888 |
| ¥ | 60 | 갤러진주차량 | 직영 | 9 66 현대천호 10 65 현대중동 | | | 221.8km 137.3km | 162.2km 85.3km | 8,200원 7,600원 | 8,600원 3,800원 | 등약대학 • 신 |
| | | 걸다던무지용 | 70 | 11 64 현대부신 | | | 87.1km | 86.4km | 4,400원 | 3,600원 | 숙명여자대학교 카희교육관 제2창학캠퍼스 |
| | 59 | 관계사이관차량 | 직영 | 12 63 현대본점 | | | 115.2km | 107.0km | 3,000원 | 2,800원 | |
| | 58 | 광양차량 | 직영 | 13 62 현대미이 14 61 현대미이 | | 1 | 169.1km | 132.1km | 4,300원 | 3,900원 | 285 |
| | | | | 14 61 현대무역 15 60 현대목동 | | | 163.1km 87.6km | 103.3km 87.7km | 6,000원 4,700원 | 2,800원 4,300원 | |
| | 57 | 광주센터차량 | 직영 | 16 59 현)충청 | | | 72.7km | 90.4km | 0원 | 3,800원 | |
| | 56 | 구미김천차량 | 직명 | 17 58 현)울신 | | | 99.4km | 110.7km | 8,200원 | 3,800원 | · 선원중학교 세인트힘 |
| | 55 | 군산익산차량 | 직영 | 18 57 현)대구 19 56 청원센터 | | 1 | 27.3km 267.8km | 27.3km | 0원 21,200원 | 0원 | 아파트 |
| | 55 | 군인적인사망 | 48 | 20 55 여주프리미엄 | | 1 | 192.5km | 271.0km 197.6km | 13,600원 | <u>17,000원</u> 10,500원 | 201 |
| | 54 | 대구센터차량 | 직영 | 21 54 여수순천 | | | 276.2km | 281.3km | 9,300원 | 13,400원 | 로일 2차 |
| | 53 | 로)광주차량 | 직영 | 22 53 양산센터 | | | 745.2km | 469.3km | 60,400원 | 2,400원 | |
| 1 | | | | 23 52 양산센터1 24 51 신세계타임스퀘어 | 양산센터1차량 실세계타임스퀘어차량 | 1 | 745.2km 80.7km | 518.2km 102.9km | 60,400원 3,000원 | <u>30,200원</u> 2,600원 | 아인스빌 |
| | 52 | 못)대구차량 | 직영 | 24 51 전세계리험드웨이 25 50 신세계본점 | | | 165.6km | 99.6km | 9,200원 | 7,700원 | |
| | | | | 26 49 신세계강님 | | | 153.4km | 142.3km | 3,000원 | 5,700원 | |
| | | | < | <mark>27 48 신</mark>)충청 | | 1 | 105.2km | 120.8km | 7,000원 | 5,600원 | 11 HA |
| | | | | 28 47 신)센텀 | | | 122.8km | 89.3km | 4,400원 | 3,400원 | 베아파트 |
| | | | | 29 46 신)대전 30 45 신)대구 | | | 202.6km 38.0km | 187.1km | 1,400원 1,000원 | <u>7,400원</u> 0원 | TMAP + State |
| | | | | <u>30 45 신)대구</u> 31 44 신)김하 | | | 98.3km | 28.4km 0km | 4,900원 | <u>0</u> 원 | |
| | | | 이용약 | 관 32 43 신)광주 | | 1 | 56.5km | 49.6km | 2,900원 | 2,300원 | |
| | | | | 33 42 스타필드하님 | 스타필드하남차량 | 1 | 237.5km | 137.1km | 15,700원 | 8,600원 | |
| | | | 10 | №4 41 스타필드고잉 | 스타필드고양차량 | 1 | 154.7km | 167.0km | 4.800원 | 5.600원 | |
| | | | | | 2021 SLsolution. ALL R | IGHT RESERVED. | | | | | 이미지지도 위성지도 |



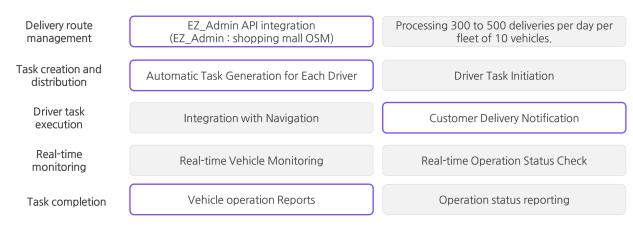
Big Coffee is a specialty coffee ingredients mall that utilizes courier services for deliveries to areas outside the metropolitan area. For same-day delivery within the metropolitan area, it relies on its own vehicles exclusively.

Before

For Big Coffee business operators, it is necessary to establish an in-house delivery system and introduce a solution that supports communication with customers.

After

- Real-time delivery status tracking enables immediate response to customer inquiries.
- Same-day delivery in the metropolitan area increases customer satisfaction.
- Establishing an in-house delivery system leads to flexible expansion of all delivery-related operations.
- New drivers can easily understand delivery locations and routes

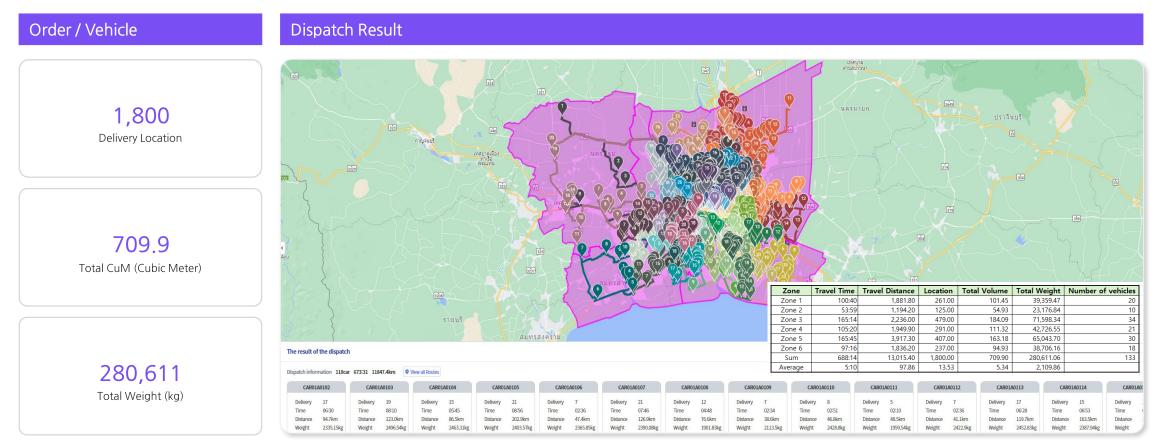


< Key Functions >



Thai H* company PoC report : Dispatched 133 vehicles for 1,800 orders across 6 regions (previously used about 150 vehicles)

Vehicle Specification: Max load weight 2,500kg, Max volume : 5.6 CBM Work time : 08:00~18:00 (Arrival time at the 1st delivery ~ Arrival time at the last delivery)



03 Success story | Thailand H* Company

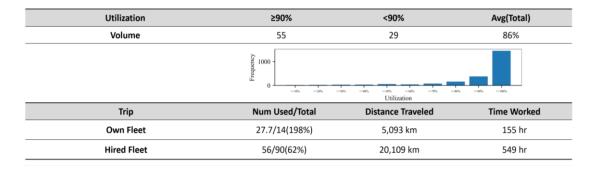
Thai H* company PoC report

"The PoC analysis results from Company H present outcomes that satisfy various conditions, including capacity (weight/volume) constraints, time windows, multi-delivery runs, preassignment, and designated vehicle delivery for each destination."

Summary(Daily Average / Summed)

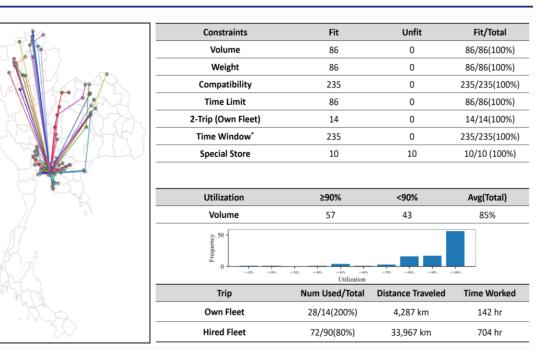
• Date : 20240501 ~ 20240531(27days)

| Constraints | Fit | Unfit | Fit/Total |
|---------------|-----|-------|-----------------|
| Volume | 70 | 0 | 70/70(100%) |
| Weight | 70 | 0 | 70/70(100%) |
| Compatibility | 224 | 0 | 224/224(100%) |
| Time Limit | 70 | 0 | 70/70(100%) |
| 2-Trip | 14 | 0.3 | 13.7/14(98%) |
| Time Window | 224 | 0 | 223.9/224(100%) |
| Special Store | 10 | 0 | 10/10 (100%) |

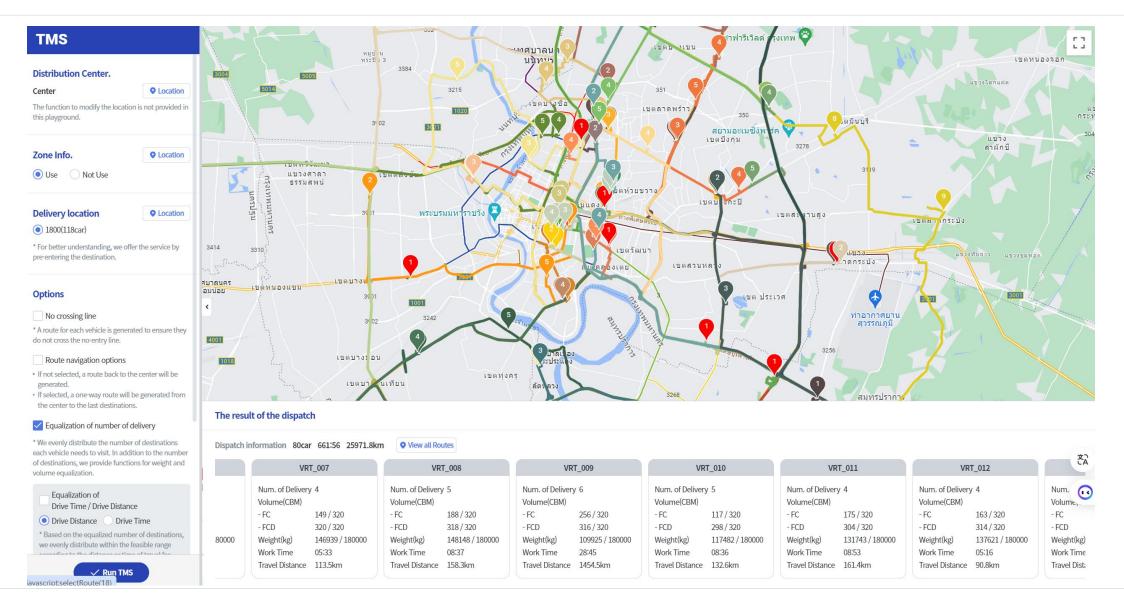


Result by Day : 2024 /05 / 01

• Date : 20240501

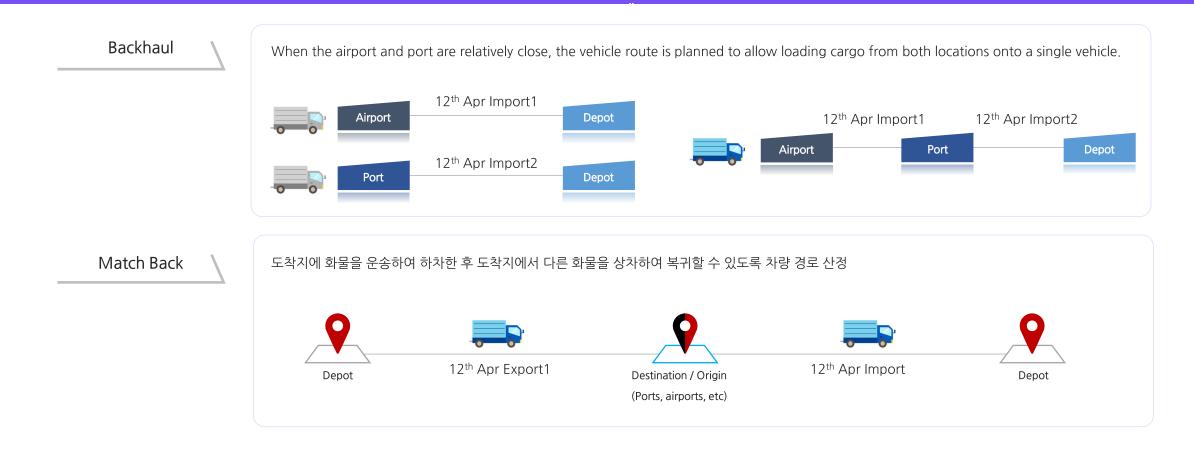


Thai H* company PoC report



SEECARGO MBS(Match Back Solution)

To prevent deadhead miles, both backhaul and match back are considered simultaneously. "The optimal route is determined by considering the vehicle's loading capacity (volume, weight) and waiting time

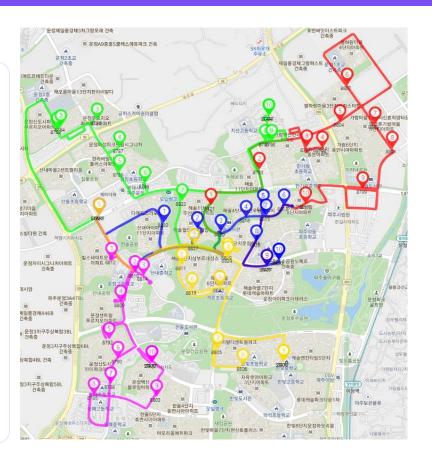


SEECARGO Shuttle

Route planning considering the boarding/loading location and arrival time at the destination for passengers/cargo Route planning based on the departure time from the origin, considering the drop-off location for passengers/cargo

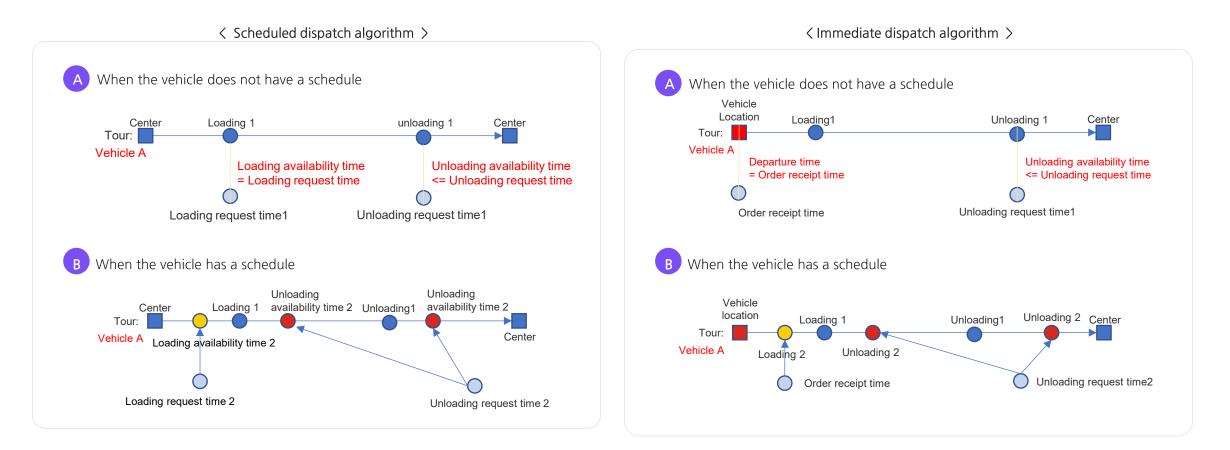


| Vehicle | Travel Distance (km) | Travel Time (Includes boarding and alighting times) | Number of stops |
|-----------|----------------------|--|-----------------|
| Vehicle 1 | 11.72 | 00:46:51 | 10 |
| Vehicle 2 | 5.80 | 00:25:14 | 10 |
| Vehicle 3 | 10.45 | 00:42:44 | 10 |
| Vehicle 4 | 6.26 | 00:25:27 | 10 |
| Vehicle 5 | 8.63 | 00:28:34 | 9 |



SEECARGO DRT (Demand Responsive Transit)

For efficient dispatching, we provide separate functions for scheduled dispatch and immediate dispatch. Each function considers whether the vehicle has an existing schedule or not, and determines the optimal vehicle and route based on boarding (loading) and alighting information.



SECARGO FBP(Freight Brokerage Platform)

By analyzing the vehicle's scheduled route based on the shipper's request, we quickly match available vehicles.

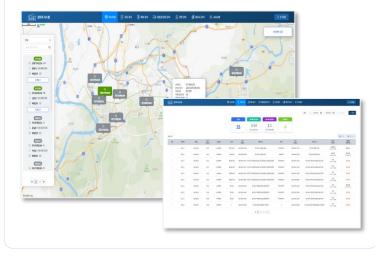
< Shipper's system >

- Loading location information: Loading location, preferred loading time
- Unloading location information: Unloading location, preferred unloading time
- Cargo information: Size, weight, etc.



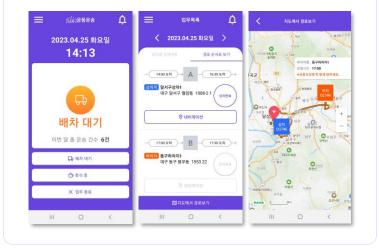
< Management system >

- Immediate dispatch: Real-time dispatch using the vehicle's GPS
- Scheduled dispatch: Dispatch based on the vehicle's planned schedule
- Real-time vehicle monitoring
- Real-time order management
- Real-time dispatch management



< Driver App>

- Immediate dispatch: Awaiting and receiving immediate dispatch requests
- Scheduled schedule inquiry:
- Check estimated arrival times for loading and unloading locations
- View locations based on maps
- Navigation integration: Google, Naver, Tmap, etc.



SEECARGO Map Matching

The collected GPS data is matched with the actual road network to accurately identify the roads traveled. By combining this data with additional information (such as speed, TACO, fuel consumption), we can more accurately determine the driver's driving habits and carbon emissions

0

더하우스

허대아이텐빈



· Determine the route with minimal carbon emissions Assign more delivery tasks to drivers with lower carbon

< Collectible information (when integrated with OBD2/temperature sensors) >

- Total vehicle mileage
- Fuel consumption
- Coolant temperature
- Vehicle speed
- Braking
- Battery voltage
- Battery temperature
- Sudden acceleration information

- Sudden deceleration
- Vehicle mileage/time
- Fuel level
- Engine oil temperature
- RPM Accelerator position

information

- Battery charge level
- Vehicle impact information



- Transmission oil temperature
- Gear status
- TPMS information
- Battery lifespan
- DTC
 - Cargo space temperature





31

이지브레9 경신건강의 항과의 위 204 스타백스 더리치빌 203 0 SC은행 2 모려아파트 로키스위밍클 102 202 201 IBK기업은행 기위 조취기

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지하주차지

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302

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탄병

고등학교

THANK YOU

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