



COMMUNITY SUMMIT

**DYNAMICS 365
CUSTOMER
ENGAGEMENT CRM**

**Orlando, FL
October 19–23, 2025**





COMMUNITY SUMMIT

POWER PLATFORM

Orlando, FL
October 19–23, 2025



The largest Microsoft Business Applications user conference on the planet.



Field Service: Why is Scheduling So Hard

AI in Service Operations



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Alithya



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Alithya

Winner

2023

Microsoft Partner of the Year

Alithya

Alithya

VITALYST®

An Alithya Company



- / Impact Award – Business Applications
- / Dynamics 365 Customer Service & Field Service
- / Business Excellence – Learning

| Agenda



- Intro – 5 Mins
- Game (Scheduling Game) – 10 Mins
 - Show the Game (Screen Share)
- Key Concepts (15 Minutes)
 - Even 10 Resources ROI
 - Fastest VS Optimal
 - Review Game Results
- Tools – Demos (20 Minutes)
 - Scheduling Agent – (3 Minutes)
 - Single Resource Optimization (2 Minutes)
 - Substitute For Sick / Canceled (3 Minutes)
 - “Roll Over to Contractor” (2 Minute)
 - Intraday Scheduling – “Red Ball Express” `
- Q/A (10 Minutes)

Traveling Salesman Problem

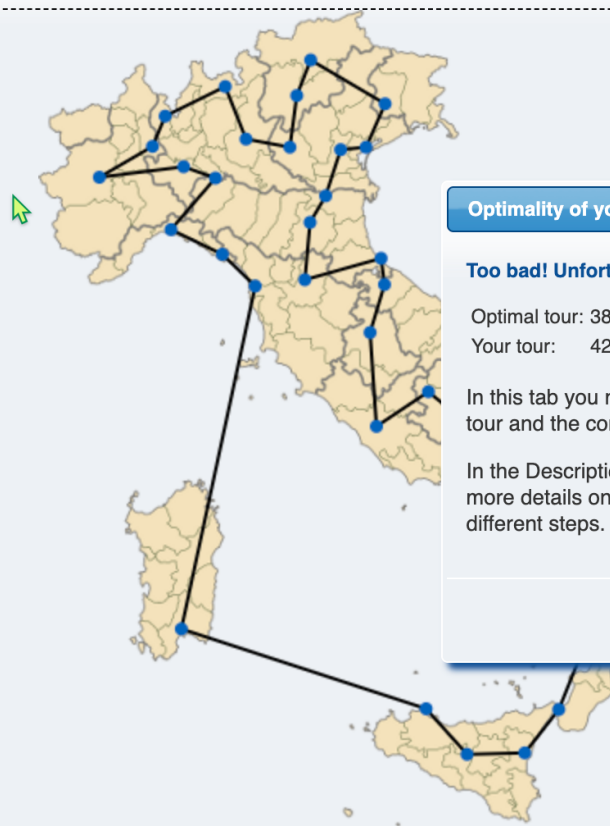
- <https://tinyurl.com/SchedulingRSO>
- Italy
- 35 Locations
 - Your Miles _____
 - Optimal Miles _____





Traveling Salesman Problem

Das Problem des Handlungsreisenden

[Introduction](#)[Create game](#)[Play game](#)[Optimal tour](#)[Description of the algorithm](#)[Calculation steps](#)[More](#)

Optimality of your tour

Too bad! Unfortunately, your tour is not optimal.

Optimal tour: 3801.8 km
Your tour: 4250.4 km

In this tab you may have a look at the optimal tour and the corresponding calculation steps.

In the Description of the algorithm you may find more details on the applied algorithms of the different steps.

[Ok](#)

Length of the optimal tour: 3801.8 km

Length of your tour: 4250.4 km

Calculation time: 31 ms

Too bad! Unfortunately, your tour is not optimal.

[Show custom tour](#)

How has the solution been calculated?

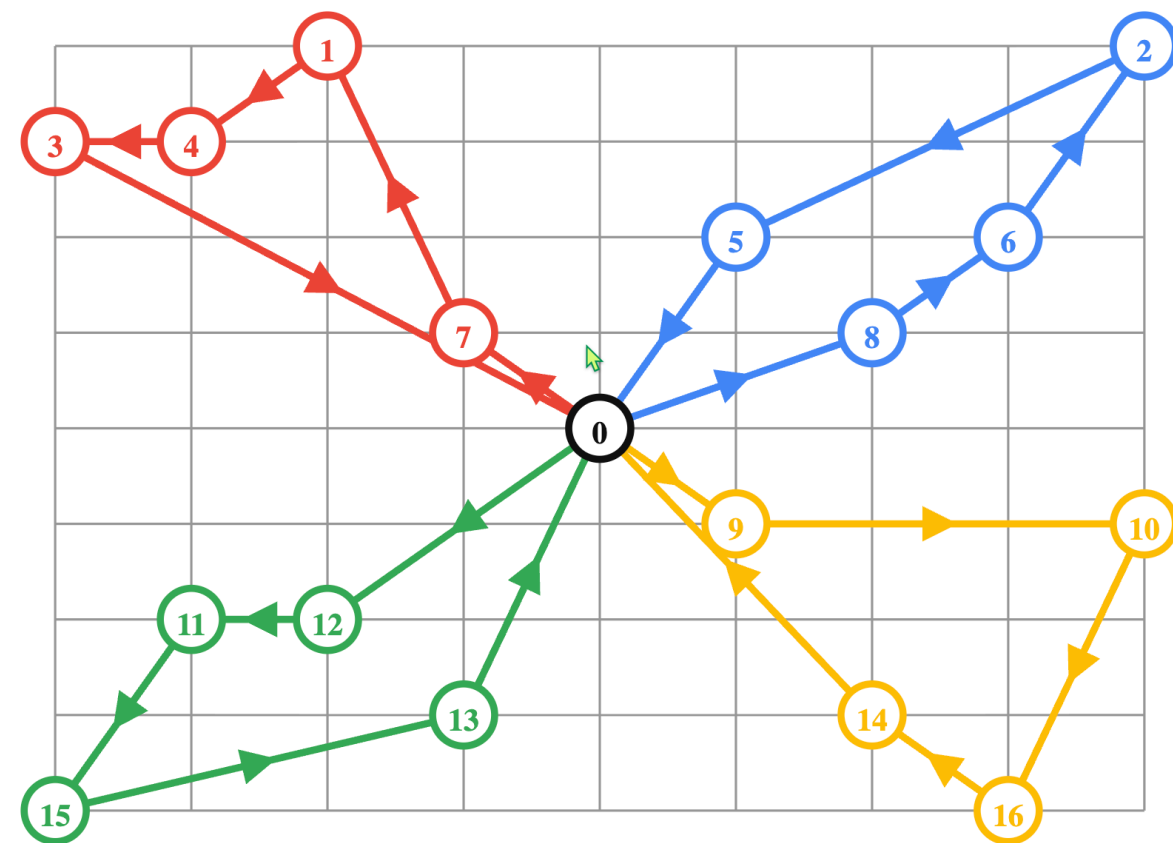
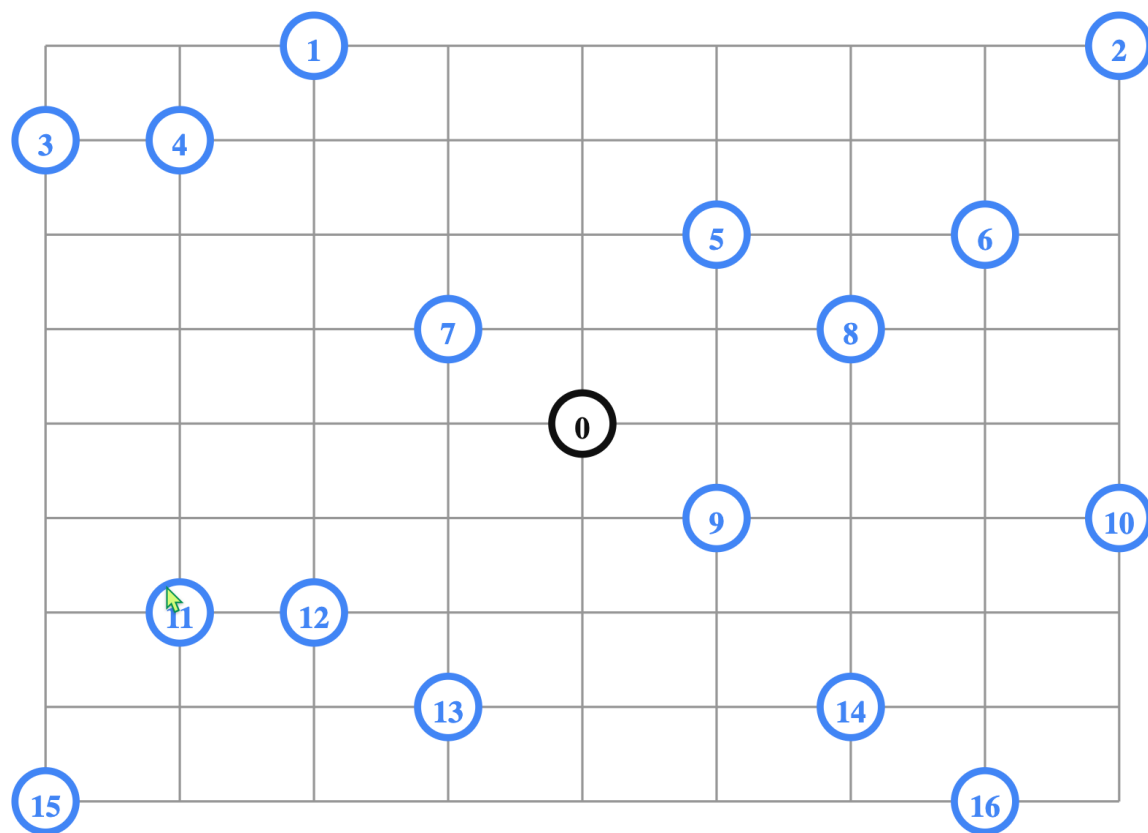
By clicking the button you will get further information regarding the functional principles of the applied algorithms, which contributed to the solution.

[Description of the algorithm](#)

Alternatively, you can directly get the calculation steps displayed, which led to this round trip.

[Calculation steps](#)[Show GameCode...](#)







QUESTION - What Place Is The Most Expensive Place For A Field Engineer to Work?



Driving to a Job – *High Cost, Zero Value*

- Every mile driven costs fuel, maintenance, insurance, and time that can't be billed.
- This is **the most unproductive expense** in field operations because it generates **no direct revenue**.
- Smart routing, territory planning, and clustering jobs reduce this waste by 20–40%.
- *Goal:* Minimize time in transit — it's pure overhead.

Planning in the Office – *Moderate Cost, Strategic Value*

- Dispatchers and technicians spend time reviewing jobs, routes, or parts availability.
- This cost is moderate but has **strategic value** if planning is precise and data-driven.
- With tools like **Copilot Scheduling Agent**, much of this becomes automated, shifting planners to higher-value tasks like exception handling.
- *Goal:* Automate routine planning and reserve human time for optimization.

Working on a Billable Project in the Field – *High Value, High Cost*

- Field time is expensive — wages, vehicles, equipment, and opportunity cost per hour.
- However, this is also where **value is created** and **revenue is earned**.
- The objective isn't to reduce this time but to **maximize its productivity** — ensuring every field hour contributes to billable output.
- *Goal:* Maximize utilization and eliminate rework, so every paid hour is productive.

**10 resources × 8 work orders
per day = 80 visits per day**

- Assuming a **5-day work week**:
80 visits/day × 5 days = **400 visits per week**

**400 visits/week × 4 weeks =
1,600 visits in 4 weeks**

80 visits/day × 5 days/week = **400
visits/week**

10 People 1 Month

Scope	Stops per Tech	Tech Count	Possible Routes	Time Horizon
Single Tech	8	1	40,320	1 Day
Team (Daily)	8	10	403,200	1 Day
Weekly	8	10	2,016,000	5 Days
4-Week Horizon	8	10	8,064,000	1 Month

The Numbers

- 10 – 20% Depending on Location and Industry
- 25k Per Year – HVAC Tech
- Travel cost per work order = 35 miles $\times$ \$0.70/mile = **\$24.50**
- Daily travel cost per technician = 8 work orders $\times$ \$24.50 = **\$196**
- Weekly travel cost per technician = \$196 $\times$ 5 = **\$980**
- If you have 10 technicians: 10 $\times$ \$980 = **\$9,800/week** in travel cost across the team.

Per Work Order Cost

Current baseline (from before)

- Average distance per work order: **35 miles**
- Cost per mile: **\$0.70**
- Cost per work order: **$35 \times \$0.70 = \24.50**

After 15% reduction

- Reduced distance: **$35 \times (1 - 0.15) = 29.75$ miles**
- New cost per work order: **$29.75 \times \$0.70 = \20.83**
- **Savings per work order:** $\$24.50 - \$20.83 = \$3.67$

15% saves approximately \$76,000 per year in vehicle cost alone for a 10-technician

Utilization Conversion

18 Minutes a Day -
Saved

• 3 More Work Orders a Week
+0.4 additional jobs/day × 10 techs = **4 extra work orders/day**
4 × 5 = 20 extra work orders/week

At \$250 average revenue
per work order

→ **\$5,000 additional weekly revenue**

Category	Weekly	Annual (52 weeks)
Mileage savings	\$1,468	\$76,336
Additional billable utilization	\$5,000	\$260,000
Total Value Gain	\$6,468/week	≈ \$336,000/year

Scheduling ROI – Assignment Ethos

Reduces Wasteful Travel and Idle Time

- *Bad work:* Driving, waiting, re-routing.
- *Good work:* Completing jobs, closing tickets, and satisfying customers.

Matches the Right Skill to the Right Job

- *Bad work:* Repeat calls, escalations, callbacks.
- *Good work:* Single-visit resolutions and higher customer confidence.

Optimizes Job Sequencing and Work Density

- *Bad work:* Low-density, inefficient routing.
- *Good work:* Tight routes and high-throughput service days.

Turns Dispatchers into Strategic Controllers

- *Bad work:* Manual reassignments.
- *Good work:* Data-driven oversight and SLA assurance.

Improves Customer Predictability and Experience

- *Bad work:* Missed windows and reactive rescheduling.
- *Good work:* Predictable, proactive service with higher CSAT and repeat revenue.

Total Economic Impact of Dynamics 365™ Field Service

Financial Benefits

346%

total return on investment



months
payback

"The platform has paid for itself 10 times over... [and] it will support our plans to expand into servicing adjacent equipment at our customers' locations."

— Enterprise Infrastructure Director,
Beverage Distribution

\$42.65M
of PV benefits

\$9.55M
in costs

\$33.10M
in NPV

Productivity Gains



14%

productivity
increase for
technicians¹



40%

productivity
increase for
dispatchers

"We measure efficiency for each technician, and we have been able to **plan more work orders** because we have seen the increase in technician utilization."

— Senior Product Manager,
Telecommunications

Efficiency Boost

12%

reduction in second visits



\$2.1M

saved from avoided travel



100

hours saved
from more
efficient
management

Administrative Savings

\$2.8M

interest savings from faster invoicing²



\$829K

savings from retiring old systems³



¹Productivity gains realized after Dynamics 365 Field Service is fully implemented. ²Interest savings are from accounts receivable. ³Savings from reduced licensing costs.
Source: "The Total Economic Impact™ of Microsoft Dynamics 365 Field Service," a commissioned study conducted by Forrester Consulting on behalf of Microsoft, December 2023. All quantified monetary benefits represent the three-year, risk-adjusted present value for a composite organization based on customer interview.

Session Objectives

01

Learning Objective 1

- Utilize advanced scheduling algorithms to optimize workforce efficiency.

02

Learning Objective 2

- Learn strategies to balance workloads and minimize travel time while maintaining service levels.

03

Learning Objective 3

- Improve first-time fix rates with AI-powered recommendations and predictive analytics.

Welcome to the era of agentic service



Agents



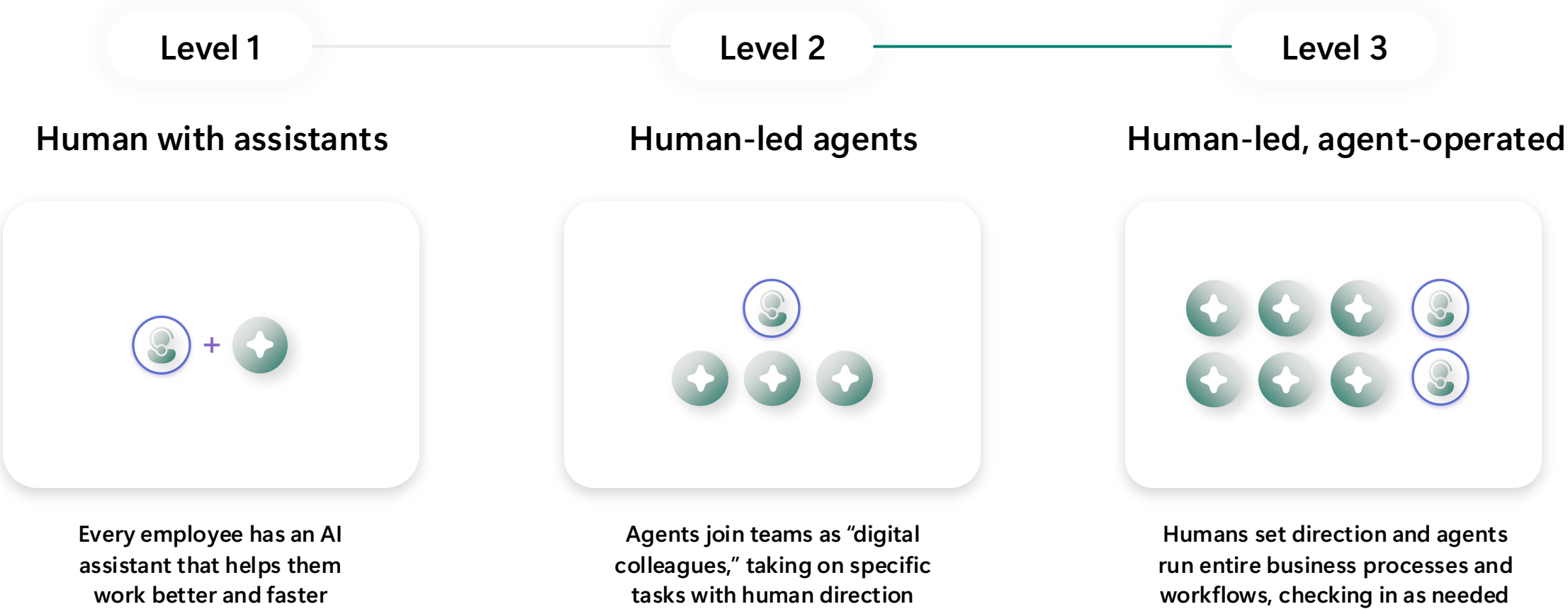
Copilot



Humans

Evolve service from human-led to agent-operated

A clear path to scale and impact with human-AI collaboration



Scale with a complete, composable solution from Microsoft



Unify service



Dynamics 365
Contact Center



Dynamics 365
Customer Service



Dynamics 365
Field Service



Teams



Outlook

Connect to the business



Dynamics
365 Sales



Dynamics 365
Customer Insights



Dynamics 365
Supply Chain



Dynamics 365
Finance



Third party
services + data

Collaboration & productivity



Microsoft 365

Orchestrate workflows



Copilot Studio

Trusted AI



Azure Open
AI Service

Harness data



Dataverse



Graph



Power Platform



Fabric

Azure foundation



Identity, security, management, and compliance + Global cloud infrastructure and services

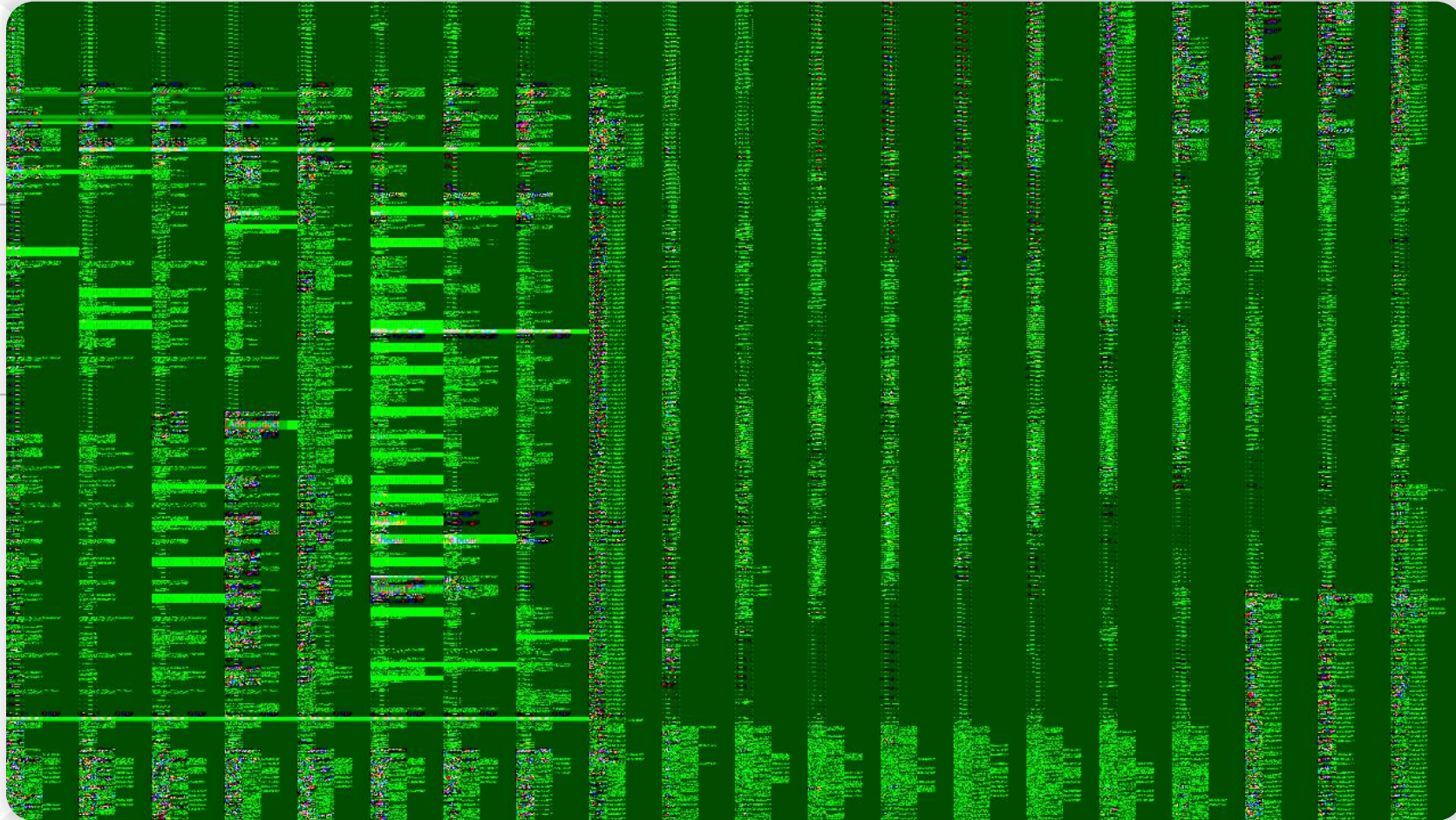
Optimize dispatch and scheduling with AI agents

Keep schedules agile and service running smoothly

Handle delays, cancellations, and conflicts via natural language inputs with the Scheduling Operations Agent

Use AI to allow dispatchers to improve the schedule of a single technician quickly and efficiently

Improve on-time arrival and technician utilization through AI-powered recommendations



 Copilot

Chat

Suggest a schedule

Sure! Here are options to adjust:

Resource *

Scheduling goal ⓘ

Time range

Timezone

Requirements * ⓘ

Include the following:

☒ Match required characteristics

☒ Match territories

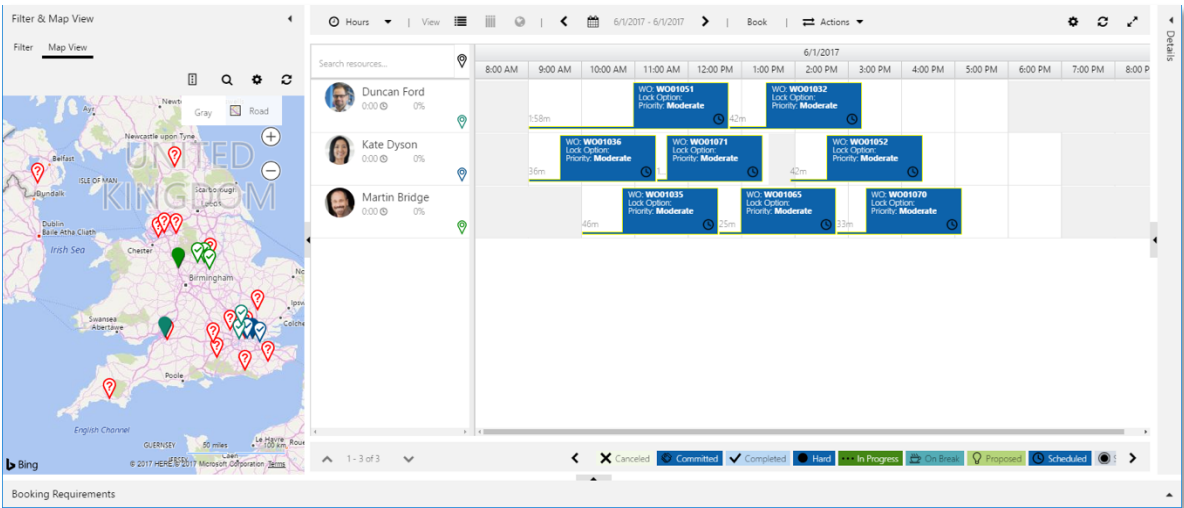
☒ Schedule within time promised window

☐ Use predictive travel time

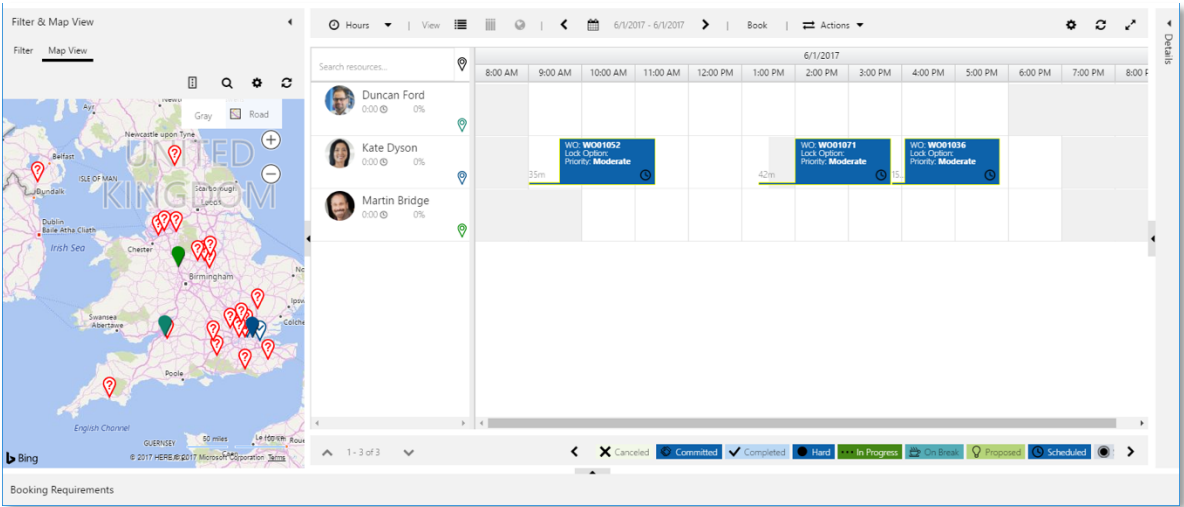
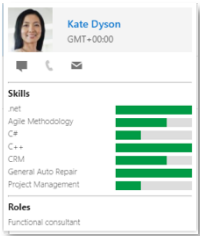
Suggest schedule Cancel

All-generated content may be incorrect

Goal>Constraint: Meets required characteristics



Constraints Meets Required Characteristics

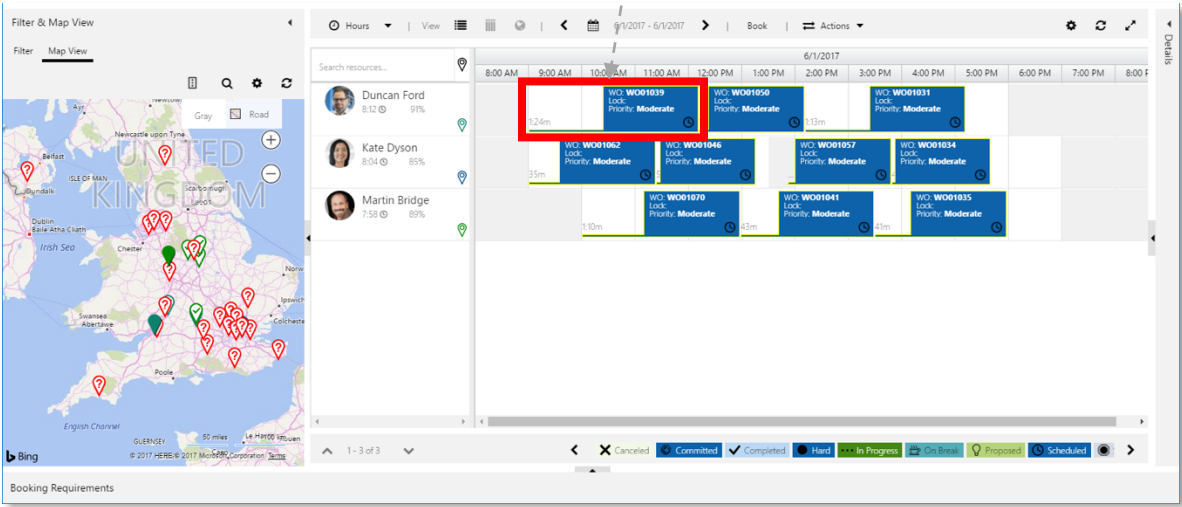


Meets Required Characteristics: Verifies the resource meets all the required skills and skill levels needed to complete the work.

Goal>Constraint: Scheduling windows

PREFERENCES

Time From Promised	---	---	---
Time To Promised	---	---	---
Date Window Start	---	---	---
Date Window End	---	---	---
Time Window Start	08:00		
Time Window End	12:00		
Fulfillment Preference	---		



Constraints

Scheduling Windows

Scheduling windows: RSO will consider the preferences. RSO first checks the dates/times defined on the booking, if they are empty it will use the ones from the resource requirement. In the example above RSO makes sure the booking's ETA is between 8:00 and 12:00. If "Scheduling Windows" is unchecked, the booking can be outside the desired window, even if "Time promised" was specified.

Goal>Objective: High priority requirements

Objectives

✓

Objective

⌵

High Priority Requirements

Active Requirement Priorities

✓

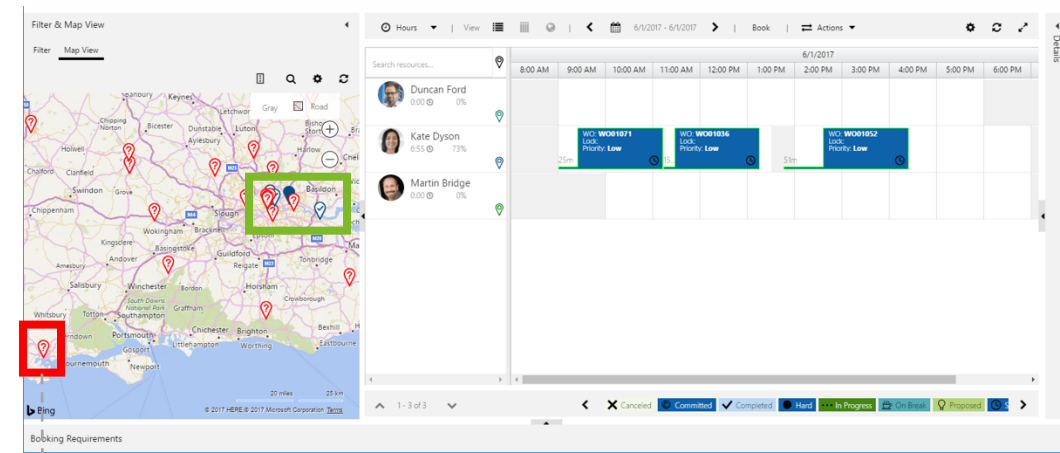
Name

⌵

Level of Importance

Low	1
Medium	5
Emergency	10

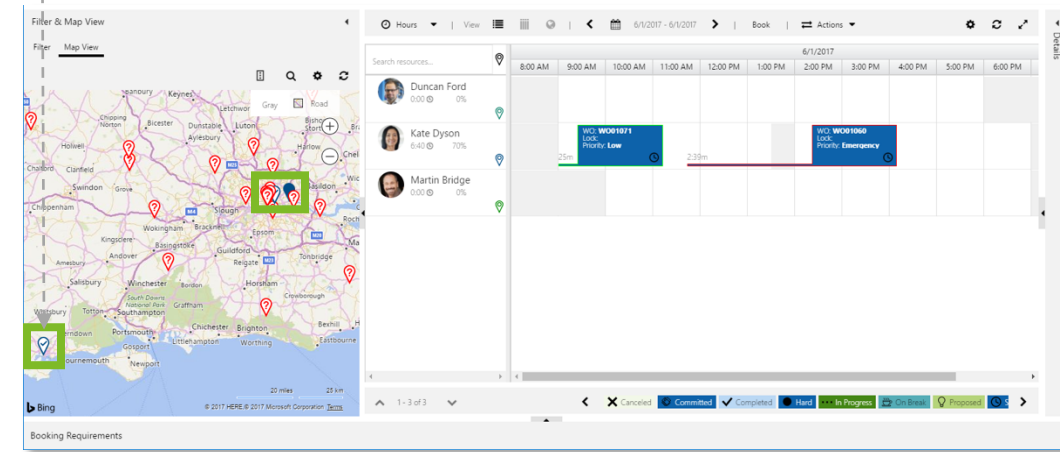
Priority ↓! Low



Before

After

Priority ↓! Emergency



High Priority Requirements: Scheduling will prefer booking requirements with higher priorities. BEFORE: RSO schedules 3 low-prio jobs, the 4th one is too far away. AFTER: Giving the job “Emergency” priority, it will be preferred. “Emergency” gives a score of 10 vs. two “Low” jobs that only score $2 \times 3 = 6$. **Caution:** 3 “moderate” jobs will get a better score than 1 “emergency”. $3 \times 5 = 15$ vs. $1 \times 10 = 10$

After Goal and Constraint #4 the impact of each factor is in the Single Digits

Factor	Weight Range	Impact	Trade-Offs
Work Order Priority	35–45%	Very High	May override travel efficiency
Travel Time	25–30%	High	May conflict with technician skill or priority
Technician Productivity	15–20%	Moderate to High	May reduce flexibility in technician assignment
Skill Matching	10–15%	Moderate	May increase travel or reduce productivity
Traffic Patterns	5–10%	Low to Moderate	May delay high-priority jobs
Resource Constraints	3–5%	Low	May limit technician options

Best Practices

Ensure there are no null fields in your data.



Include latitude and longitude for every resource requirement.



Establish a default priority, with normal priority assigned to 80-90% of your work orders.



Start with a pilot program in one territory.



Track key performance indicators (KPIs).

Outlook

Q Search

Home

View

Help

Training
in 40 min

New mail

Delete

Archive

Move to

Read / Unread

Focused

Other

Other Emails (6)

Microsoft Azure; Microsoft; Microsoft on ...

This week

Pierre Hulsebus

Urgent Request

Mon 1:06 PM

Pierre Please help! One of my em...

July

Microsoft

Your Microsoft invoice ...

7/9/2025

Sign in to review your latest invoi...

G100837674.pdf

Microsoft on behalf of your orga...

You have late tasks

7/1/2025

Hi Pierre. You have 3 tasks due. Y...

June

Microsoft on behalf of your orga...

You have tasks due to...

6/30/2025

Hi Pierre. You have 3 tasks due. Y...

Microsoft on behalf of your orga...

You have upcoming t...

6/29/2025

Hi Pierre. You have 3 tasks due. Y...

Microsoft Power Automate

3 of your flow(s) have...

6/28/2025

The flow(s) listed failed in the pas...

Urgent Request

PH

Pierre Hulsebus<infuseme@gmail.com>

To: Pierre Hulsebus

Mon 10/20/2025 1:06 PM

Pierre Please help! One of my employees pulled the alarm on a hood and we are Out of Comission till you bring it back online,.

I will take care of it.

It has been reset.

I will stop by.

Reply

Forward

Field Service

Home

Work Orders

Suggested actions

Visit schedule board to create a booking.
Open schedule board or reply with a proposal.

Open schedule board

Draft email based on Work Order
WO01304

Details

System Status *

Unscheduled

Substatus

Priority

1_Emergency

Service account *

19696 - Contoso Southgate

Work order type *

Emergency Repair

Incident type

Save changes

Outlook

Search

HomeViewHelp

Training
in 38 min

New mailDeleteArchiveMove to

Read / Unread

FocusedOther

Urgent Request

Other Emails (6)

This week

July

June

Pierre Hulsebus
Urgent Request
Mon 1:06 PM
Pierre Please help! One of my em...

Microsoft
Your Microsoft invoice ...
7/9/2025
Sign in to review your latest invo...
G100837674.pdf

Microsoft on behalf of your orga...
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Hi Pierre. You have 3 tasks due. Y...

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6/30/2025
Hi Pierre. You have 3 tasks due. Y...

Microsoft on behalf of your orga...
You have upcoming t...
6/29/2025
Hi Pierre. You have 3 tasks due. Y...

Microsoft Power Automate
3 of your flow(s) have...
6/28/2025

Pierre Hulsebus<infuseme@gmail.com>

To: Pierre Hulsebus

Mon 10/20/2025 1:06 PM

Pierre Please help! One of my employees pulled the alarm on a hood and we are Out of Comission till you bring it back online,.

I will take care of it.It has been reset.I will stop by.

ReplyForward

Field Service

Draft with Copilot

Get AI-generated email drafts based on your input, email, and related Work Order from Dynamics 365.

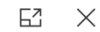
Learn more

Select the type of response

Confirm schedulePropose schedules

Dynamics 365

B-159



Save Save & Close + New Book Delete Refresh Collaborate

Share

B-159 - Saved

Work Order · Work Order

0

Price Not-To-Exceed (%)

0

Cost Not-To-Exceed (%)

4/14/2025 3:01 PM

Created on

36936 - Contoso Perry

Service account

General Products and services Tasks Expenses Reference Timeline Copilot Payment Related

Form assist

SLA Information

SLA Timers

Last update: 10/22/2025 12:34 PM



First Reponse By

- 190d 20h



Work Order Arrival Time

- 190d 13h



Work Order Resolution Time

- 189d 21h

Details

Status



Unscheduled



Priority



3_Moderate



Service account



36936 - Contoso Perry



Project



Copilot



Generate

Booking suggestions



Pierre Hulsebus



Wed, Oct 22, 2025



2:00 PM - 3:00 PM



30min travel time



Pierre Hulsebus



Fri, Oct 24, 2025



9:05 PM - 10:05 PM



1h 5min travel time



Pierre Hulsebus



Tue, Oct 28, 2025



2:45 PM - 3:45 PM



1h 9min travel time



Requirements



1h duration



Find availability

Use the Agent

 Copilot

Chat

Suggest a schedule

Sure! Here are options to adjust:

Resource *

Scheduling goal ⓘ

Time range

Timezone

Requirements * ⓘ

Include the following:

☒ Match required characteristics

☒ Match territories

☒ Schedule within time promised window

☐ Use predictive travel time

Suggest schedule

Cancel

All-generated content may be incorrect



Suggested schedule settings

✕

Resource *

DS David So

✕

Scheduling goal ⓘ

Maximize utilization

▼

Time range

Until the end of today

▼

Timezone

(GMT-08:00) Pacific Time (US & Canada)

▼

Requirements * ⓘ

Pending work

▼

Include the following:

☒ Match required characteristics

☒ Match territories

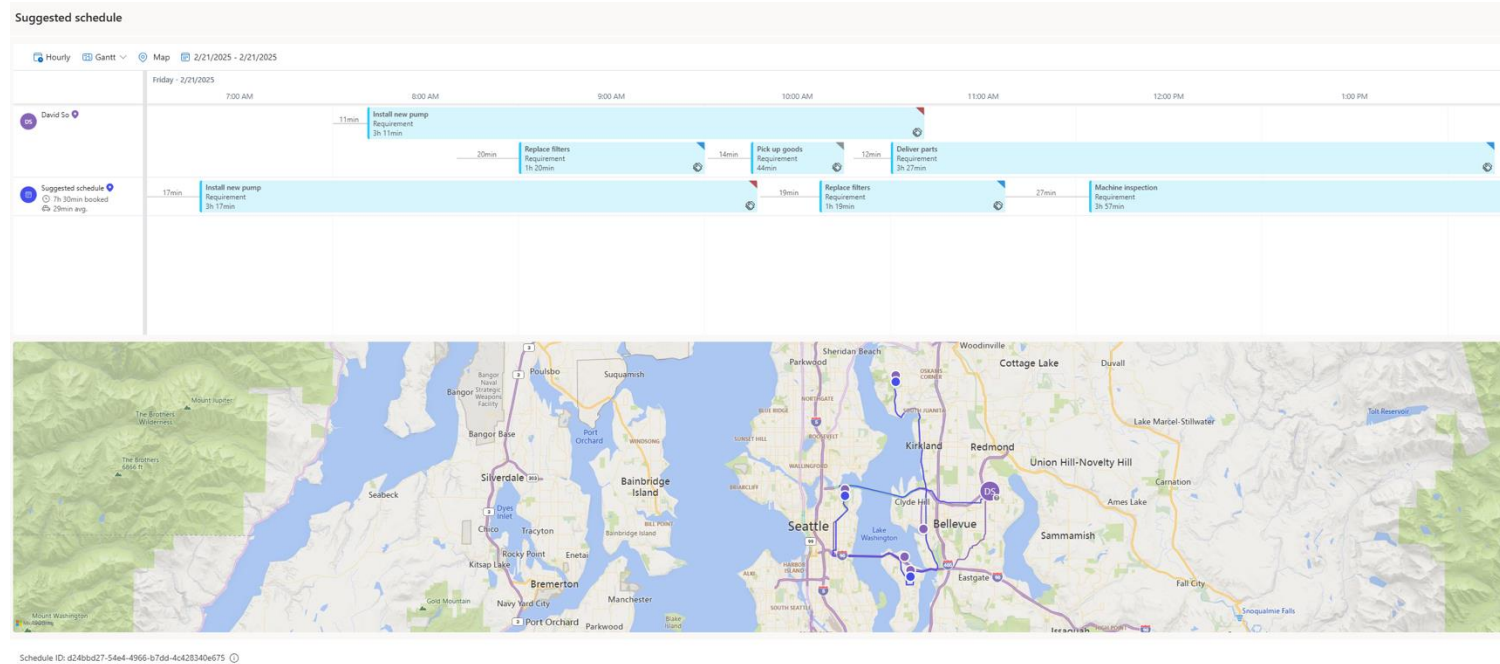
☒ Schedule within time promised window

☒ Use predictive travel time

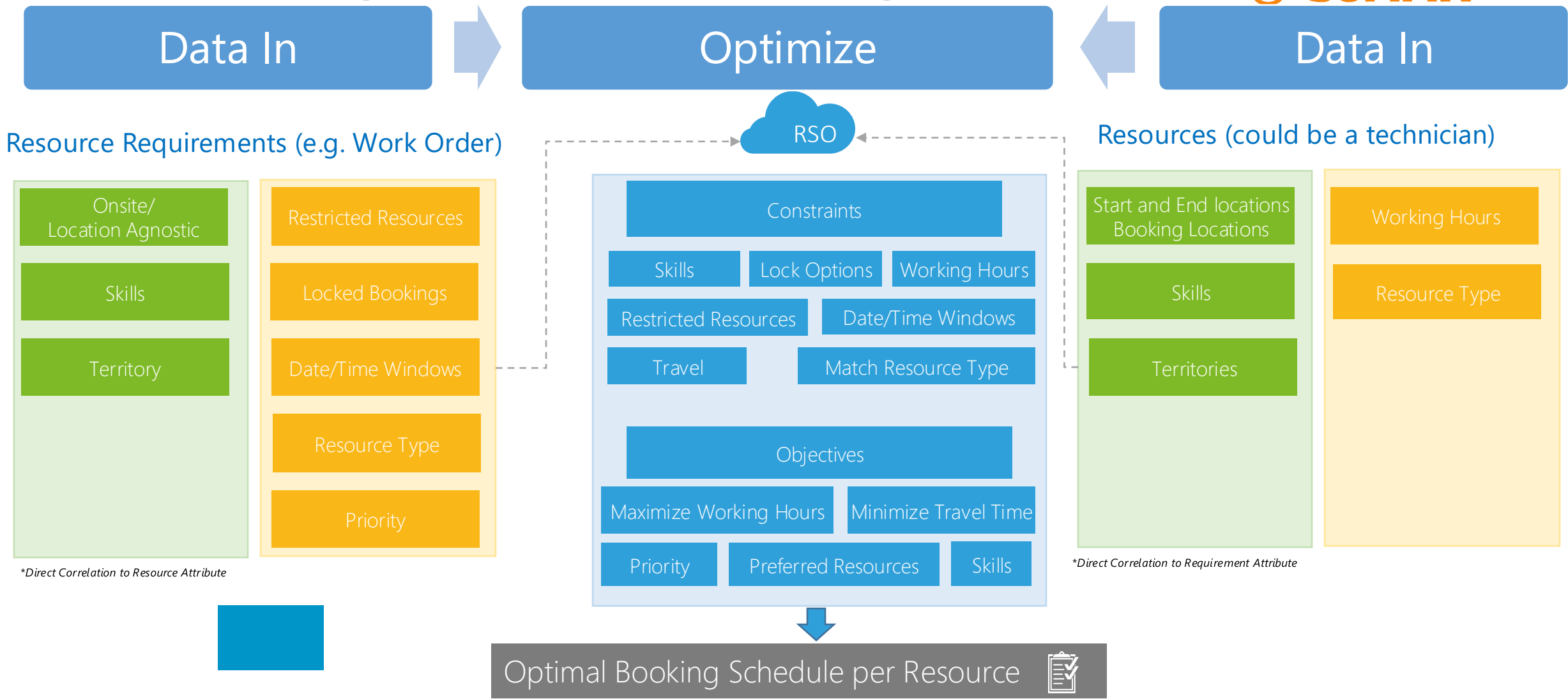
Suggest schedule with the goal to maximize utilization for David So until the end of the day on 2/13/2025 (GMT-08:00) Pacific Time (US & Canada).

Suggest schedule

Cancel



Automating the Scheduling Process



3 ways to schedule

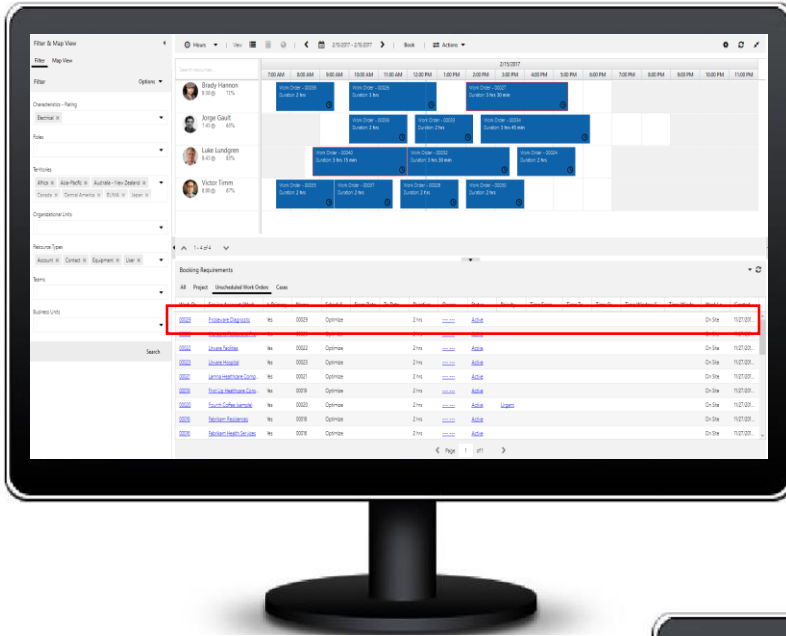


Resource scheduling optimization

Evaluates routes and automatically schedules work orders to minimize travel time and maximize working hours. The “engine” also responds to reschedules and cancellations. After automatically scheduling, dispatchers still have ability to manually override schedules as needed.

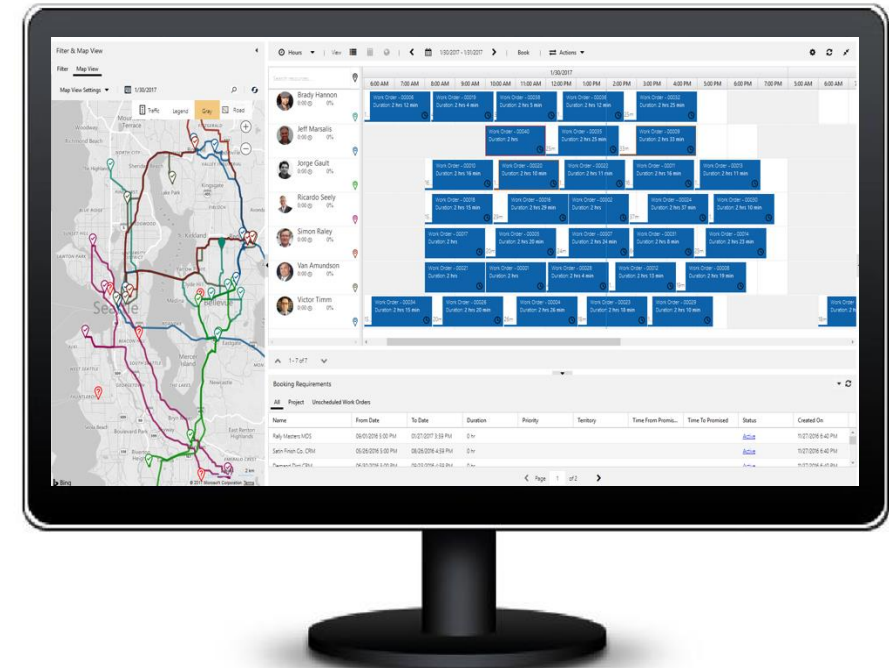
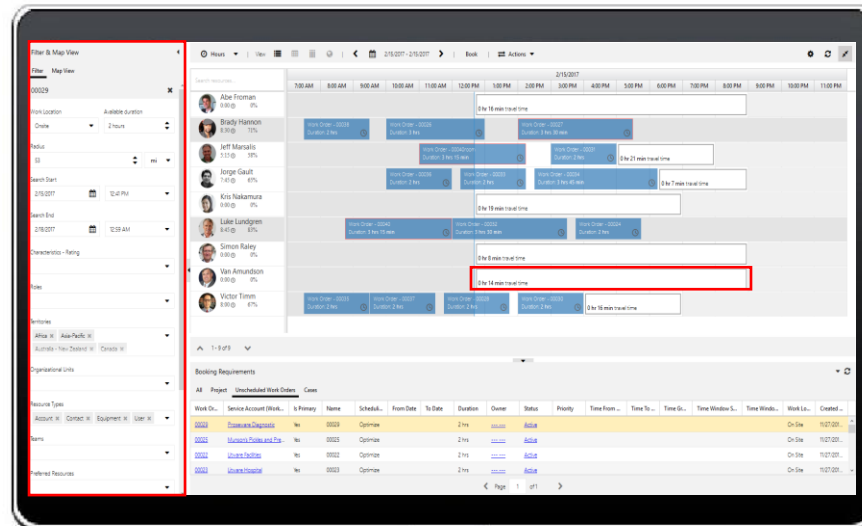
Manual service scheduling

Allows you to click and drag work orders from bottom to resources on top.



Scheduling assistant

Allows you to filter resources on left by travel range, skills, dates, roles, territories and more and the system recommends available resources on right and displays estimated travel time.



Book
0 hr 19 min travel time

Scenario for Resource Scheduling Optimization (RSO)

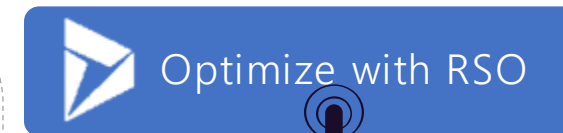
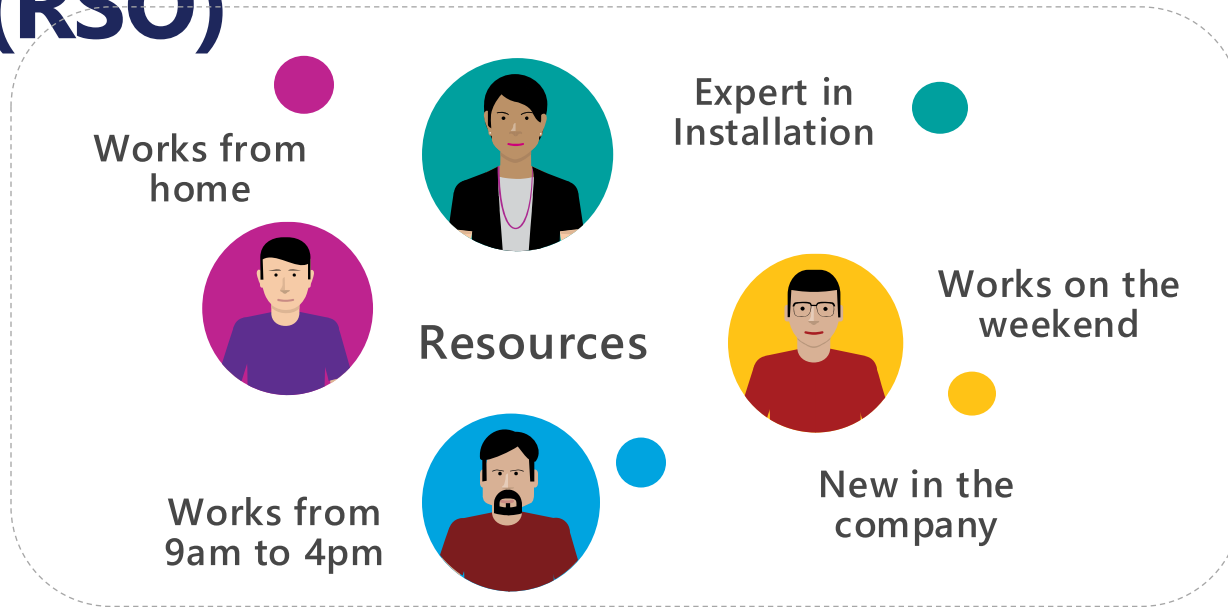


Set of **Resources:**

- Calendar with working hours
- Characteristics / Skills
- Start and End locations
- ...

Set of **Requirements/Activities:**

- Time windows
- Required characteristics
- Location
- Duration
- Priority
- ...



RSO's mission

Given a set of requirements demanding resources, find a schedule to optimize different objectives while constraints are met.



Constraints:

- Schedule Within Working Hours
- Meets Required Characteristics
- Meets Required Roles
- Scheduling Lock Options
- Scheduling Windows
- Meets Resource Preferences
- Matches Territories
- Matches Resource Type

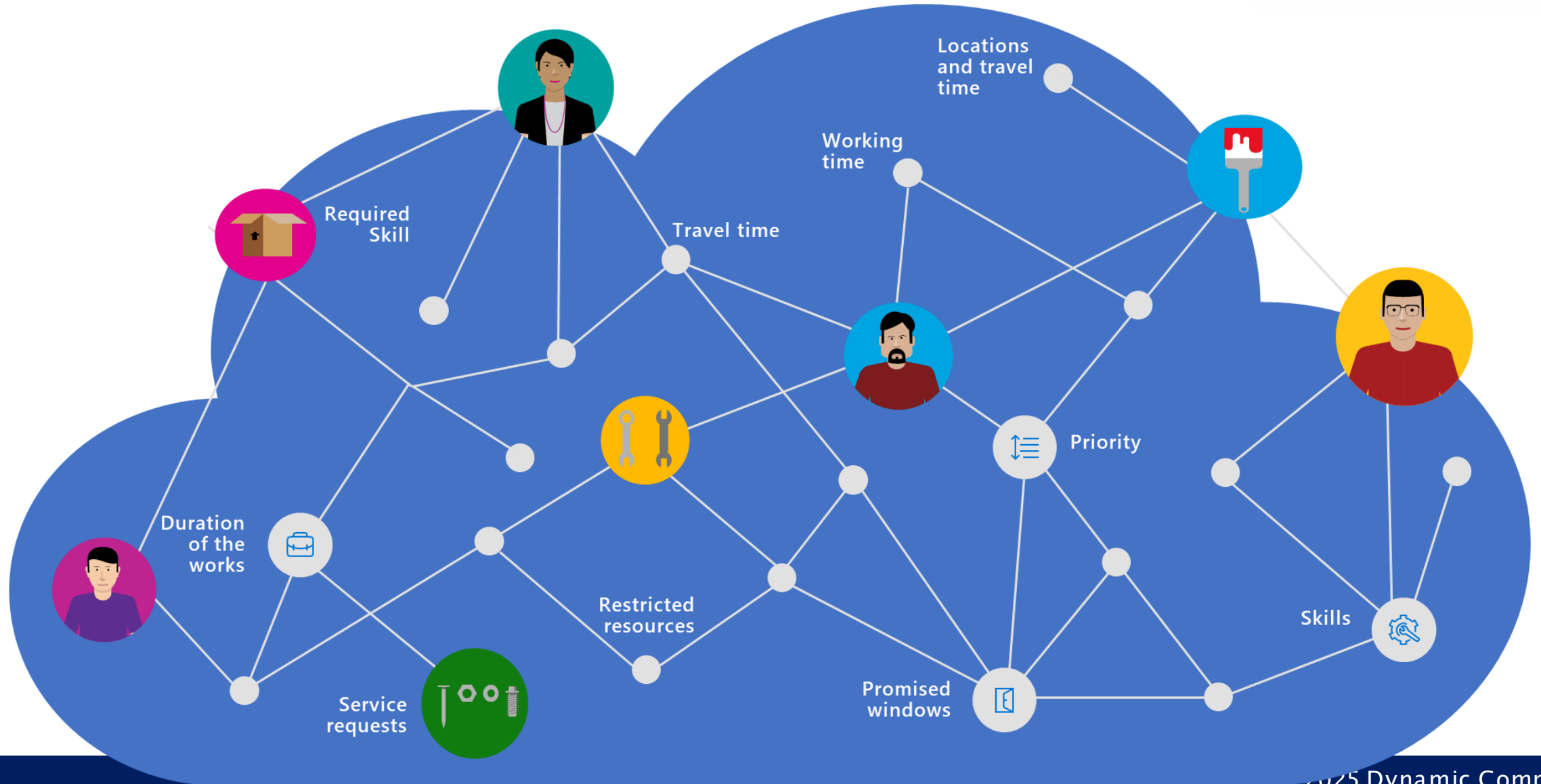
Objectives:

- Maximize Total Working hours
- Schedule As Soon As Possible
- Minimize Total Travel Time
- High Priority Requirements
- Locked Bookings
- Maximize Preferred Resources
- Best Matching Skill Level



RSO's mission

Will evaluate different combinations considering the selected constraints and objectives.



How many routes need to be configured



We want to **minimize total cost** while **maximizing priority, skill match, and productivity**:

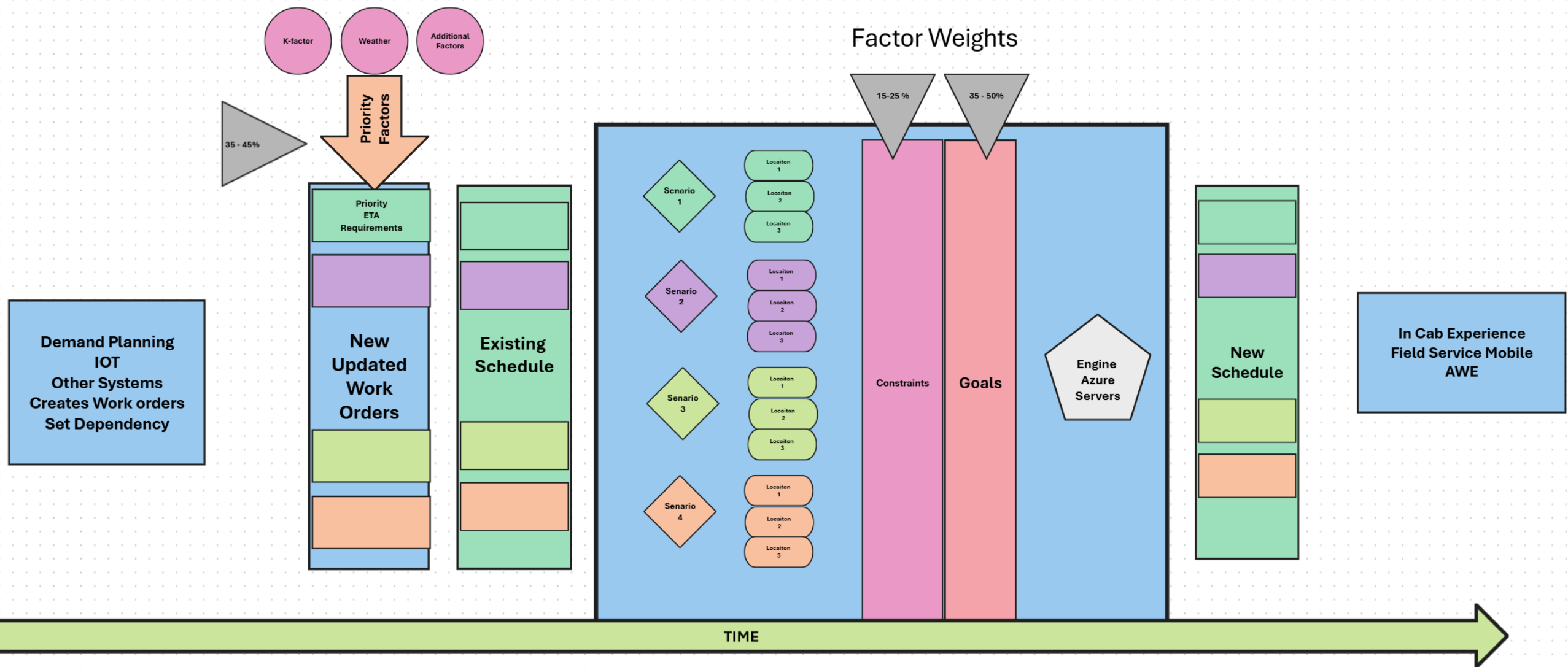
$$\text{Minimize } \sum_{k=1}^m \sum_{i=1}^n \sum_{j=1}^n (\alpha \cdot d_{ij} - \beta \cdot p_i \cdot x_{ijk} - \gamma \cdot s_{ik} \cdot x_{ijk} - \delta \cdot u_k \cdot x_{ijk})$$

- 50 work orders daily (*10 Per Tech*)
- 350 work orders per week

Even with **just travel time** as a factor, the number of possible route combinations for one technician are:

10! = 3,628,800 possible sequences

Across 5 technicians: **$(10!)^5 \approx 10^{31}$ combinations**



Pierre Hulsebus

Dispatch Reviews
and Adjusts
Schedule Engine

Pierre Hulsebus

Schedulers review
and Manage Jobs
Manage Errors

Pierre Hulsebus

Dispatch Reviews
New Schedule
Adds and Approves
Time Off Requests
Changes Schedule to
accomidate
Customer demands

Pierre Hulsebus

Driver
FSM
Or AWE
GPS In Cab with
Hazardous Turn
Accomidations

- Effective scheduling and resource optimization are the secret sauce to maximizing service efficiency, slashing costs, and making customers smile. In this session, we'll dive into the cool world of advanced scheduling techniques within Dynamics 365 Field Service Dynamics CE's Universal Resource Scheduling, and Resource Scheduling Optimization, and Copilot Scheduling. We will be including AI-driven scheduling, resource balancing, and travel time minimization. We will spill the beans on how to leverage resource optimization algorithms, predictive analytics, and automation to supercharge service delivery and boost those all-important first-time fix rates. Get ready to uncover the best practices for tackling complex scheduling scenarios and making the most out of your resources for peak performance.
- Join us on a journey to master advanced scheduling and resource optimization techniques within Dynamics 365 Field Service. We'll equip you with the knowledge and practical insights needed to harness AI-driven scheduling, resource balancing, and travel time minimization to supercharge service efficiency and customer satisfaction. Through expert discussions, real-world examples, and inspiring success stories, you'll gain actionable strategies to implement advanced scheduling and resource optimization solutions in your field service management practice

After Goal and Constraint #4 the impact of each factor is in the Single Digits



Factor	Weight Range	Impact	Trade-Offs
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Work Order Bundling

Dynamics 365 Field Service Service > Resource Requirements > Task 1.1 >> 1.1 -> 1.2

+ New Deactivate Delete Refresh Assign Share Email a L

1.1 -> 1.2
Requirement Dependency

General Related

Name	*	1.1 -> 1.2
Owner	*	 First name Last name
Predecessor	*	 Task 1.1
Successor	*	 Task 1.2
Dependency Type	*	StartAfterEnd

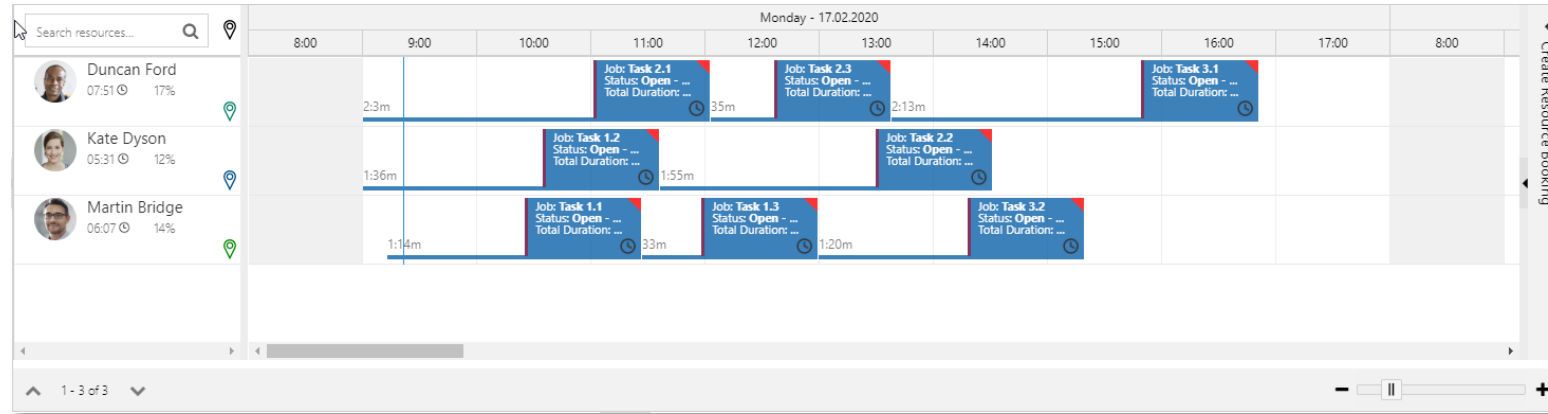
Work Orders Created with Dependency

- Work Order 1
- Work Order 2
- Work Order 3
- Work Order 4
- Work order 5 (drive home)

Scheduling Engine Runs

Requirement Dependencies

Multiple similar dependencies defined for this example.



New Requirement Dependency

General

Name * Task 1.1 ----> Task 1.2

Owner * Alexander Heinze

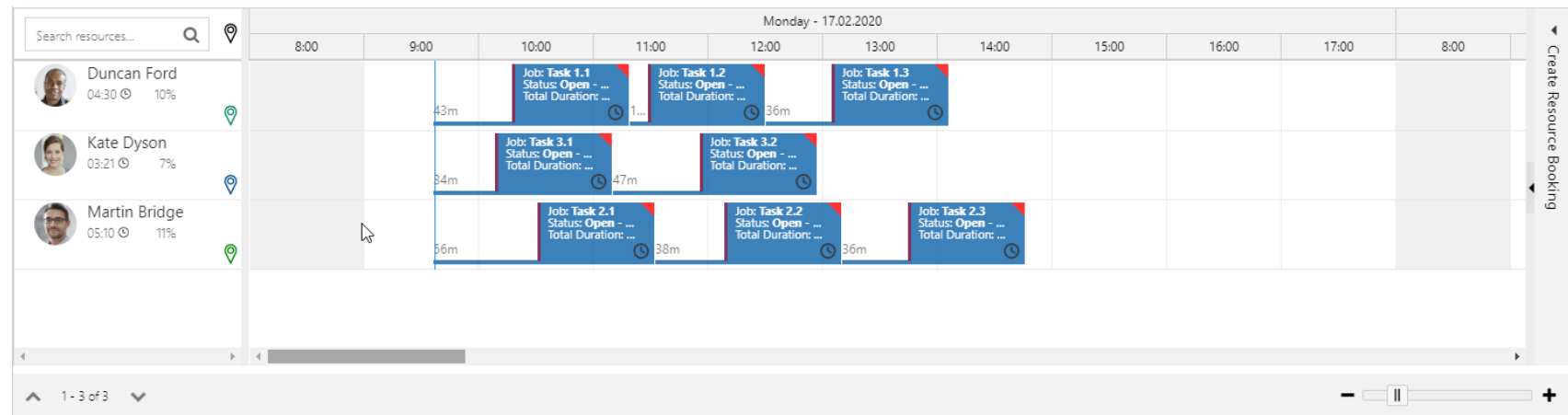
Predecessor * Task 1.1

Successor * Task 1.2

Dependency Type * StartAfterEnd

Before

After



Requirement Dependencies: Lets you schedule requirements in a specific order by defining a predecessor/successor dependency relationship.

Constraint: This is an implicit constraint. As of now the only supported dependency is "start 1.2 after 1.1 is finished". All dependent requirements need to be scheduled to the **same resource** on the **same day**. Generated bookings do not have to be adjacent, i.e. you could see 1.1 → <another job> → 1.2 → <another job> → 1.3.

Set Up System

Set Up
Billing

- Copilot Studio

Configure
Setting

- Dynamics
Resource

Test

- Schedule Board
- Copilot

The image displays three screenshots from the Microsoft Dynamics 365 and Power Platform ecosystem, illustrating the setup process for a system.

Top Screenshot: Power Platform admin center
This screenshot shows the 'Power Platform admin center' interface. The 'Licensing' tab is selected, and the 'Billing Plans' section is highlighted with a red box. Below this, a table lists the billing plans:

Name	Status
AlithyaContactCenterBillingPlan	Enabled
AlithyaDemosBillingPlan	Enabled
D365ContactCenterBillingPlan	Enabled

Middle Screenshot: Dynamics 365 Resource Scheduling
This screenshot shows the 'Dynamics 365 Resource Scheduling' interface. The 'Agents' tab is selected, and the 'Scheduling Operations Agent (Preview)' is shown as 'On'. A red box highlights the 'Agents' tab and the 'Scheduling Operations Agent (Preview)' section.

Bottom Screenshot: Dynamics 365 Work Order
This screenshot shows the 'Dynamics 365 Work Order' interface for work order 00048. The 'SLA Information' section shows 'First Response By' and 'Work Order Resolution Time' as 'Succeeded'. The 'Booking suggestions' section is highlighted with a red box, showing a suggestion for 'Pierre Hulsebus' on 'Fri, Oct 24, 2025' from '9:02 PM - 10:02 PM' with a '1h 2min travel time'.

Metadata Configuration

Set Bookable Resources To Optimize (Not Location Agnostic)

Set Optimization for Booking Methods

Set Priority

New Bookable Resource - Unsaved

General Scheduling Field Service Omnichannel

Start Location * Resource Address

End Location * Location Agnostic
✓ Resource Address
Organizational Unit Address

Scheduling

Display On Schedule Board * Yes

Completed - Saved

Booking Status

General Common Field Service Related ▾

Name * Completed

Status * Committed

Description ---

Optimization Method Do Not Move

High - Saved

Priority

General Notes Related ▾

Name * High

Priority Value * 75

Level of Importance 7

Operational Readiness

It doesn't support resources of type *Account*, *Equipment*, *Pool*, and *Facility*. The agent supports *User*, *Contact*, or *Crew* resources only.

The resource must not be part of a crew during the entire optimization range.

The resource can have up to three breaks during their work day or shift. With four or more breaks, the agent returns an error.

The agent doesn't consider a requirement's fulfillment preferences or partially fulfilled resource requirements.

The agent needs to run when the resource is available for work. The resource can't be on break, off work, or traveling to or working on a booking.

Optimization Logic and KPI Alignment

Conflicting optimization goals

- Maximizing utilization can conflict with minimizing travel time or prioritizing SLAs.

Dynamic business rules

- Constantly changing priorities (emergencies, customer cancellations) require adaptive logic and retraining users to **recalibrate** the agent.

Insufficient feedback loops

- Without ongoing performance review (e.g., comparing AI vs manual results), **optimization** quality declines over time.

Governance & Continuous Improvement

Auditability and explainability

- Executives often ask: *"Why did the system schedule it that way?"* — requiring transparent rules and audit trails.

Monitoring KPIs post-implementation

- Success depends on tracking key metrics: utilization rate, average travel time, first-time fix rate, and response time.

Iterative tuning required

- Scheduling models improve only with iterative feedback, not a one-time deployment.

Change Management & Human Adoption

Dispatcher trust and control

- Dispatchers may resist “automation” if they feel replaced rather than augmented. Success requires framing the agent as a *co-pilot*—not an autopilot.

Technician acceptance

- Crews often prefer familiar patterns; changes to routes or sequencing can create friction without clear communication of benefits.

Training and process alignment

- Teams must learn how optimization goals and parameters affect outcomes.

Cultural shift to AI-assisted decision-making

- Moving from reactive scheduling to proactive automation requires new habits and accountability models.



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