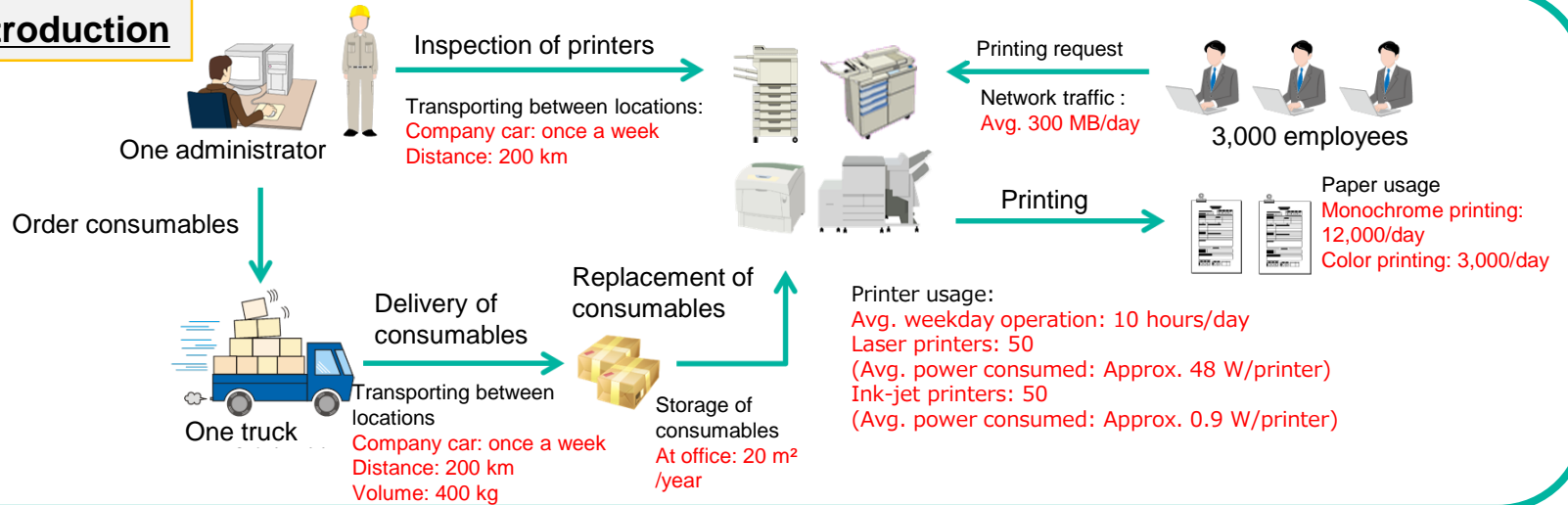# WebSAM PrintCenter V Environmental Load Evaluation Model

- Remote centralized management of printers reduces administrative management costs
- Visualization of printer usage status reduces usage by aiding in the effective relocation and operational evaluation of printers
- Collecting and managing printing history reduces printing volume by eliminating unneeded printing and ensuring application of double-sided/aggregate printing
- Staying informed of the amount of remaining printer consumables ensures effective replacement and storage, and cuts down on consumable management costs
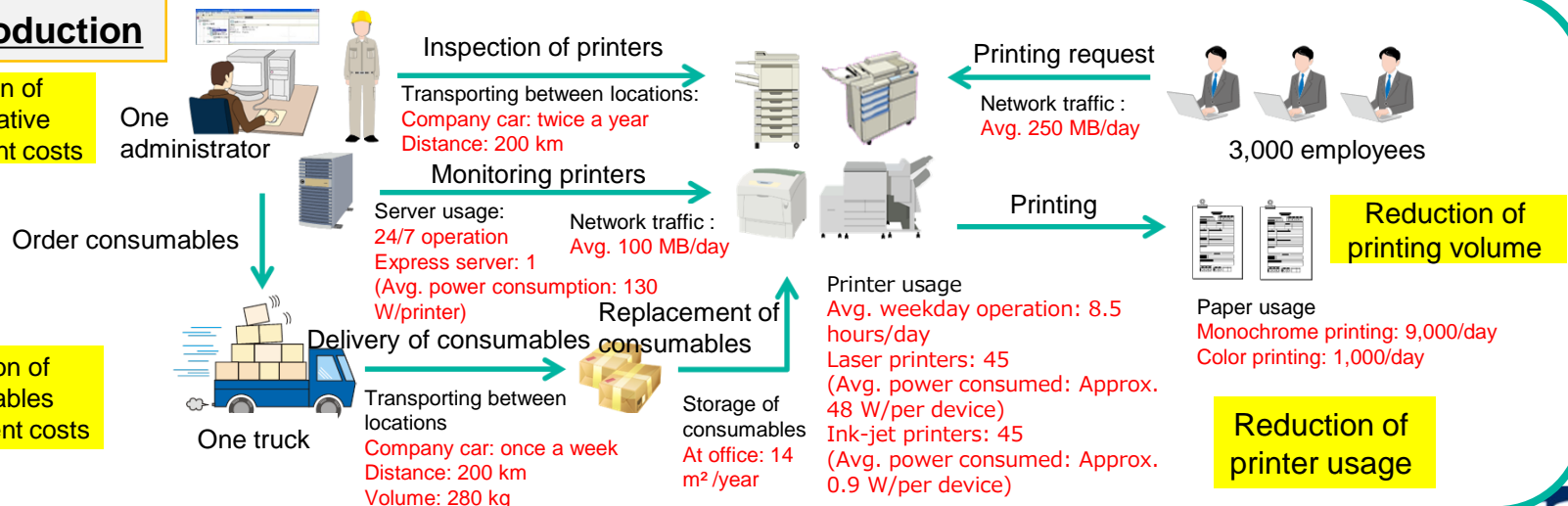
Before introduction

One administrator

Inspection of printers

Transporting between locations:
Company car: once a week
Distance: 200 km

Printing request

Network traffic :
Avg. 300 MB/day

3,000 employees

Order consumables

One truck

Delivery of consumables

Transporting between locations
Company car: once a week
Distance: 200 km
Volume: 400 kg

Replacement of consumables

Storage of consumables
At office: 20 m² /year

Printing

Paper usage
Monochrome printing: 12,000/day
Color printing: 3,000/day

Printer usage:
Avg. weekday operation: 10 hours/day
Laser printers: 50
(Avg. power consumed: Approx. 48 W/printer)
Ink-jet printers: 50
(Avg. power consumed: Approx. 0.9 W/printer)

After introduction

Reduction of administrative management costs

One administrator

Inspection of printers

Transporting between locations:
Company car: twice a year
Distance: 200 km

Printing request

Network traffic :
Avg. 250 MB/day

3,000 employees

Monitoring printers

Server usage:
24/7 operation
Express server: 1
(Avg. power consumption: 130 W/printer)

Network traffic :
Avg. 100 MB/day

Order consumables

Reduction of consumables management costs

One truck

Delivery of consumables

Transporting between locations
Company car: once a week
Distance: 200 km
Volume: 280 kg

Replacement of consumables

Storage of consumables
At office: 14 m² /year

Printing

Printer usage
Avg. weekday operation: 8.5 hours/day
Laser printers: 45
(Avg. power consumed: Approx. 48 W/per device)
Ink-jet printers: 45
(Avg. power consumed: Approx. 0.9 W/per device)

Reduction of printing volume

Paper usage
Monochrome printing: 9,000/day
Color printing: 1,000/day

Reduction of printer usage

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Environmental impact assessment result for the WebSAM PrintCenter V

▌ Achieved CO_2 emission reduction by 34% via introduction of the WebSAM PrintCenter V

Amount of CO_2 emission

Items	Before introduction (tons)	After introduction (tons)	Amount of reduced CO2 emission (tons)	Reduction rate of CO2 emission (%)
(2)Equipment use	3.266	3.125	0.141	4%
(3)Paper use	29.795	19.863	9.932	33%
(5)Movement of people	2.263	0.087	2.176	96%
(6)Material transport	0.526	0.368	0.158	30%
(7)Material storage	1.733	1.213	0.520	30%
(8)Network use	0.027	0.031	-0.003	-13%
Total	37.610	24.687	12.923	34%