

Group 6

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Theme 4 :New business and market using non-industrial robots.



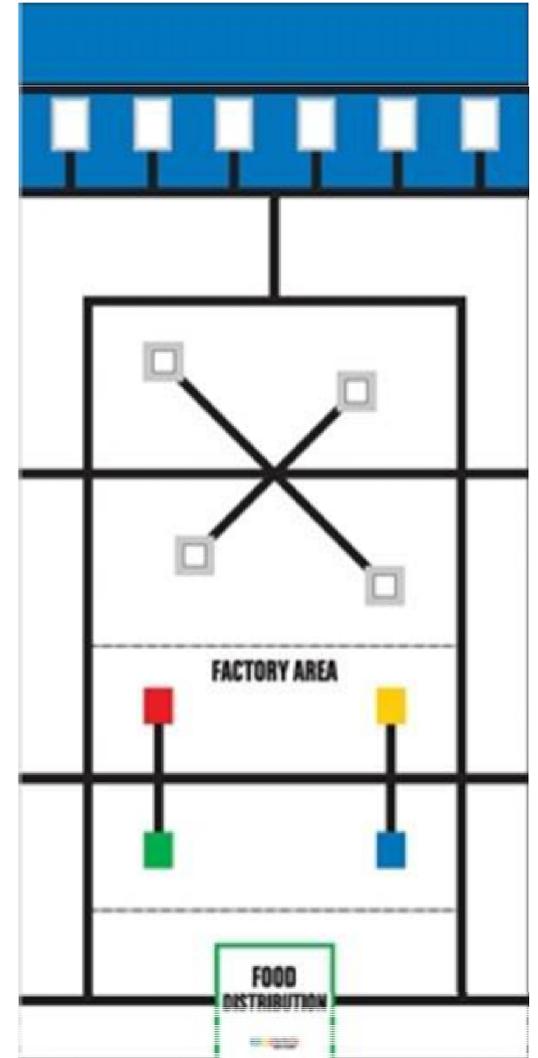
クラーク記念国際高等学校

CLARK Memorial International High School

WRO Experience



引用元 アフレル



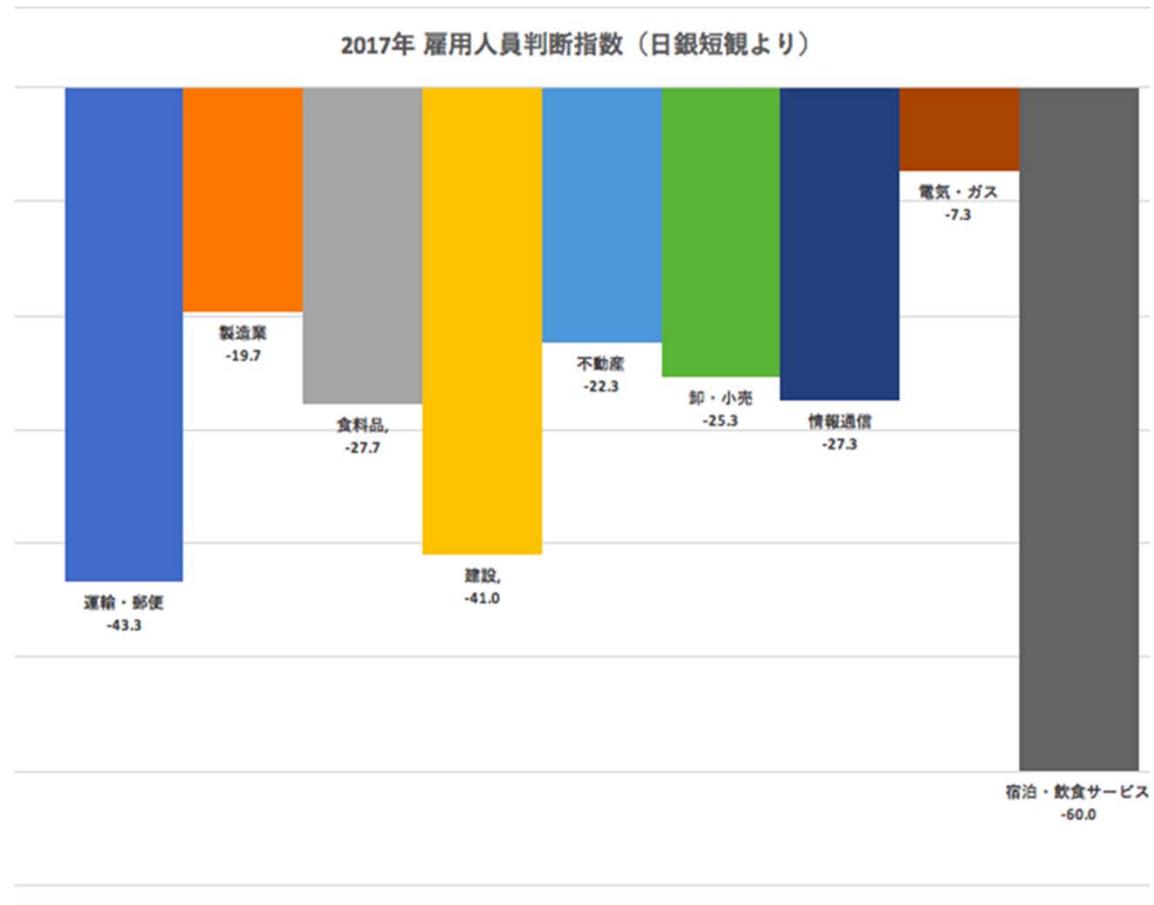
引用

https://www.excite.co.jp/news/article/Primes_2018-05-17-7203-47/



Labor shortage becomes serious

- In Japan, the handling of luggage per employee is increasing rapidly due to the growing labor shortage of delivery companies.



引用

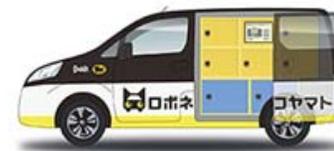
<https://bowgl.com/transportation-industry-manpower-shortage/>

Labor shortage
becomes serious

- Therefore, courier companies etc. are making various efforts to solve the last one mile part of delivery, there is also active research into the introduction of robot technology as a next-generation solution.



出典：ウォルマートプレスリリース



引用：<https://eczine.jp/news/detail/3393>

Roboneko Yamato and its system



引用：<https://eczine.jp/news/detail/3393>



引用
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Roboneko Yamato and its system

- Similar to the service that has been popular in recent years, receiving goods in stores and stationary boxes, users are required to go to the vehicle that transported the delivered package it was evaluated as a benefit, such as being able to specify the reception time and reception place.



引用

(C) 2019 [SATUDORA HOLDINGS](https://www.satudora.com/)



引用

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Use an existing commercial facility

- If there is enough space for using the service in the commercial facility, you can use it to transport the vehicle or container module to operate the service.



引用：マンション・ラボ

Use an existing commercial facility

- By securing an available space in one corner of the parking lot in the facility, it is possible to build a system that allows unmanned operation 24 hours a day from transfer to installation and collection of empty containers with an autonomously operated robotic vehicle.



引用：[The Journal Times](#).



引用：国土交通省

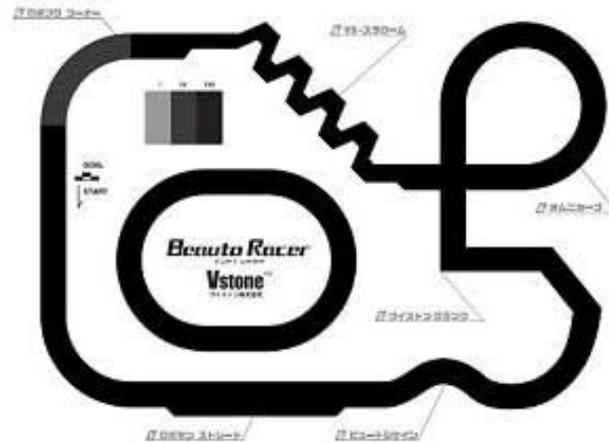


* MUJIN モバイルロボット ソリューション

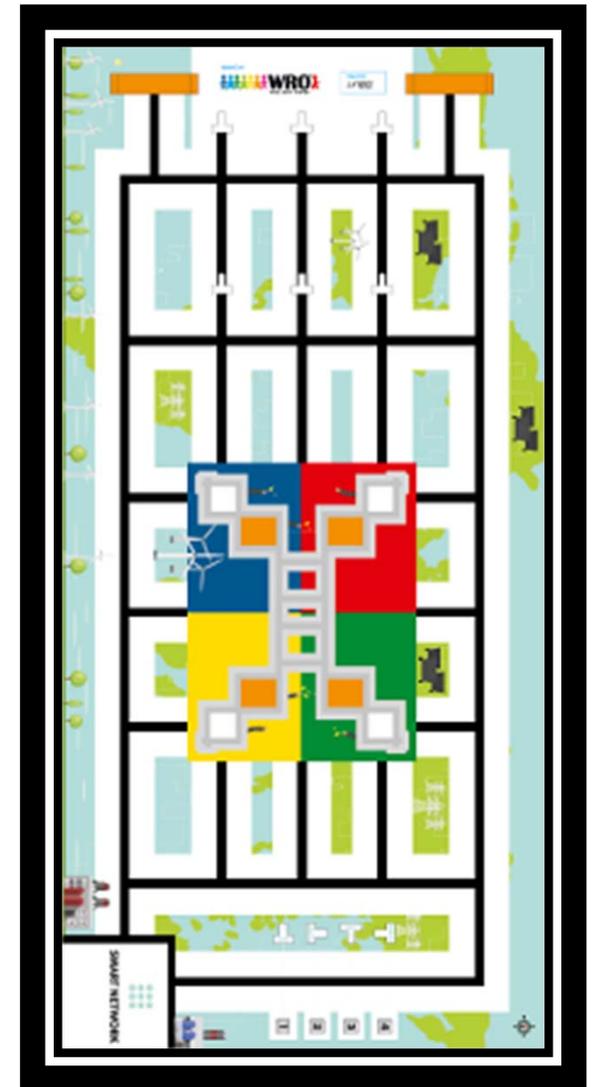


引用 MUJIN 公式Twitter

Line trace



引用 ヴイストーン株式会社



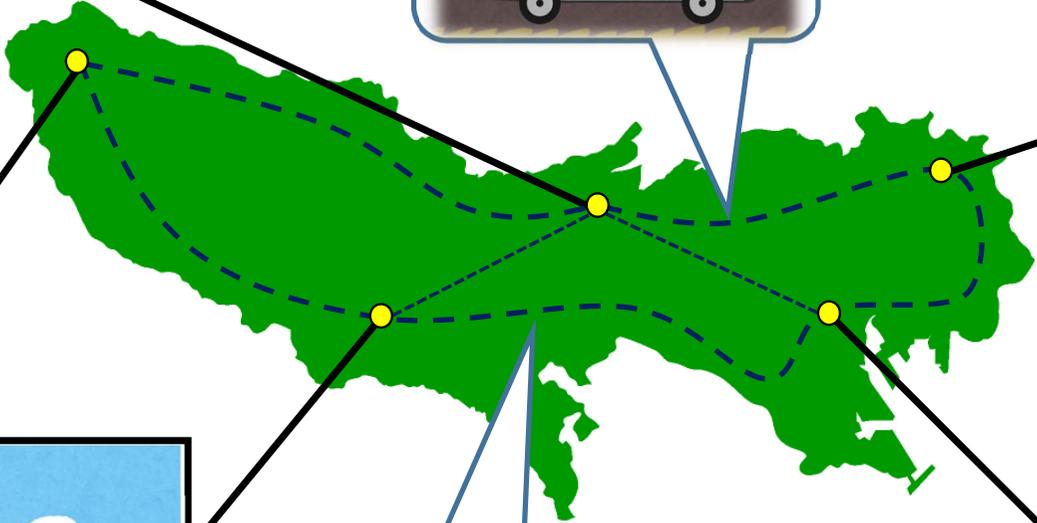
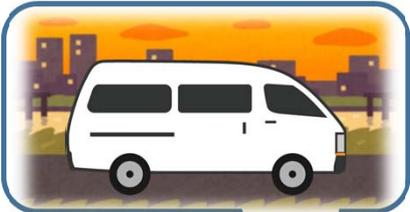
引用 Afrel

Use an existing commercial facility

- If transportation can be completely unmanned, users can use services that can be received anytime and anywhere, and shipping companies can use services without increasing the burden on workers. Can provide it.



Logistics version smart grid



Think you for listening

ご清聴ありがとうございました