



HEAVEN'S COURIER

Jiaho
Shift APPens 2021



“By 2035, there is potential for in excess of 400000 drones with the majority flying beyond visual line of sight and many, including for delivery purposes, being demanded for in populated settings [...]”

SESAR JU (2016)



What we care for?

“A world where you go outside and the sky is filled with mechanical Ravens.”

Our Vision

“Introduce drones to our everyday lives by offering an easy to use application, making your drone an authentic courier.”

Our Mission



Problem

- ❑ People with mobility related issues usually have prescriptions and difficulties with grocery shopping.
- ❑ Unnecessary movement throughout the day can cause stress and can be inconvenient, affecting a person's comfort.
- ❑ In the context of a pandemic like COVID-19, there is a need to buy common goods (e.g. medicine) without worrying about the virus transmission.
- ❑ Drones' full potential is not being taken advantage of.



Why now?

- ❑ New regulations in 2019 by the EU on drone usage. [\[regulation\]](#)
- ❑ A major effort is being made by entities like the ATC, SESAR JU, EUROCONTROL, EUROCAE, ICAO and EASA to enable safe drone use over the european sky.
- ❑ The number of drone enthusiasts is increasing and the trend seems to keep increasing.
- ❑ The fruits of this labor are different projects, including BUBBLES that will be capable of coordinating drone use for a big range of different intended tasks.



Solution

- ❑ Easy to use platform to empower drone owners.
- ❑ Promotes independence and self-sufficiency for people with low mobility issues.
- ❑ Pickup/deliver goods from/to designated places (e.g. in safe to land spots or affiliated spaces).
- ❑ Environment friendly choice for quick affairs.
- ❑ Acquire goods from affiliated places like the pharmacy, supermarket or take-away.



Demo



Team



Fábio
Cordeiro



Lucas
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Miguel
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Pedro
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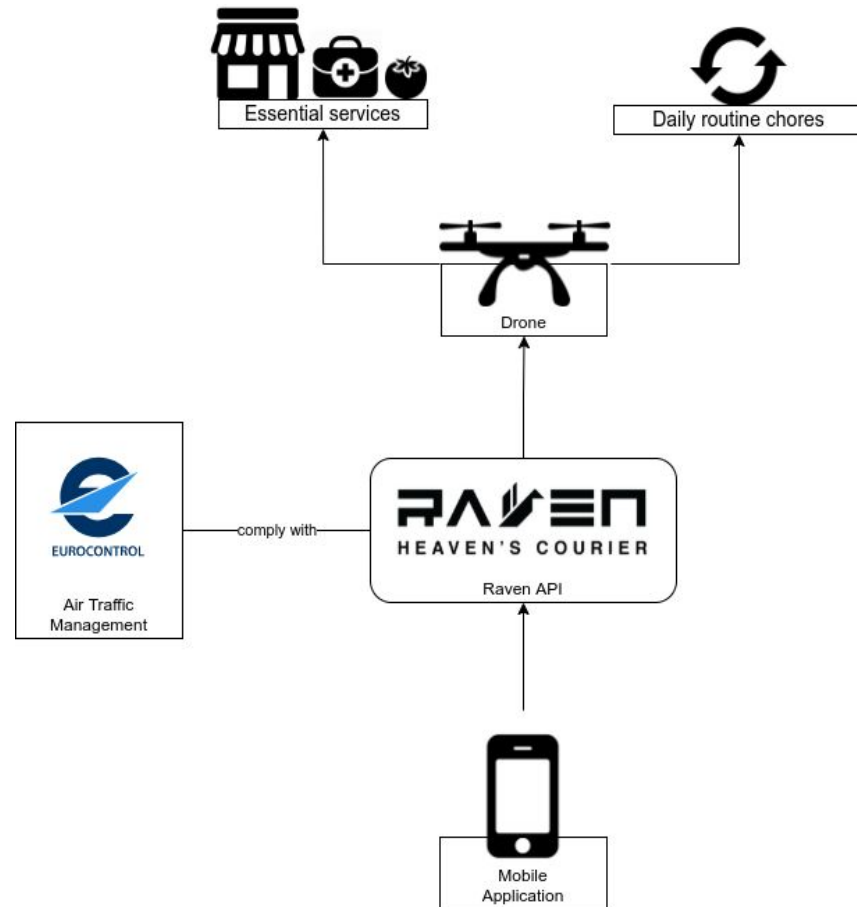
For more information, visit our TAIKAI Challenge page and the appendix section on this presentation.

THANK YOU! :)



Appendix

Architecture



Technologies used



Market Size

Source:

https://link.springer.com/content/pdf/10.1007%2F978-3-319-71087-7_2.pdf

, p.21

Drones flying at any given moment in 2020

10 K
units

Drones flying at any given moment in 2035

400 K
units

Drones flying with delivery related missions in 2035

70 K
units

Roadmap

