

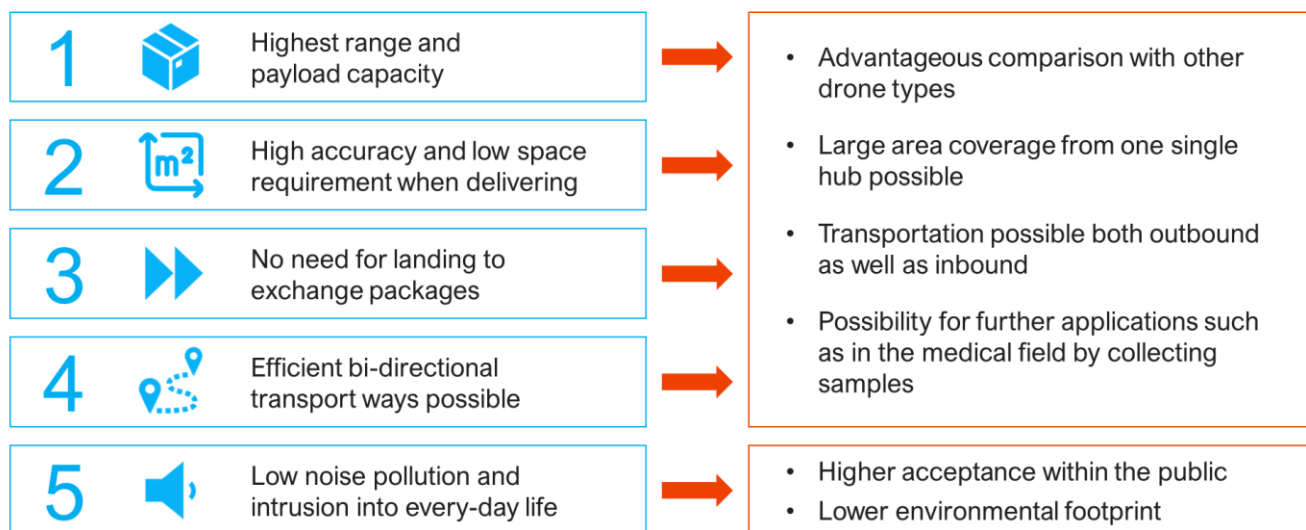
Our coupling mechanism – How does it work?

Our coupling mechanism allows drones to exchange their package in-flight. Therefore, it circumvents the unavoidable problems of utilizing a hybrid solution, where one will always have to make compromises.

We try to utilize the strengths of the Fixed Wing, the high range, speed and payload capacity, with the strengths of a multicopter of landing anywhere with little need for space.

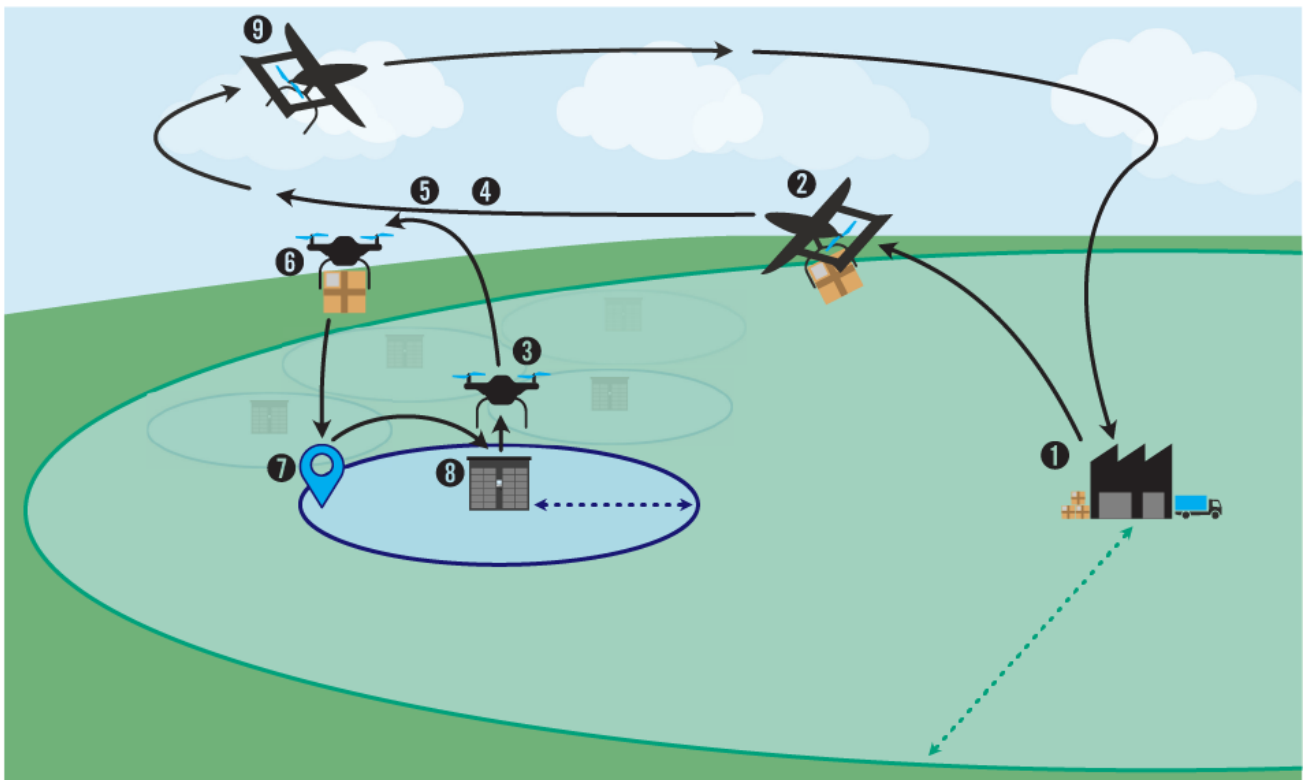
Our general concept is to connect the drones physically first, before exchanging any packages or shifting weights. This is done by at first bringing the two drones on a stable flight path underneath each other and close the distance to a minimum. In the second phase we connect our coupling mechanism to establish a physical connection between the two drones. The established physical connection can then be used to exchange packages in flight.

This leads to several advantages compared to using other systems such as hybrid ones:



Excerpt from our Pitch Deck

Here is how a general application of our concept could work:



1. Dispatch of package from logistics hub
2. Fixed Wing drone flies long range distance close to final destination
3. Multicopter drone dispatches and flies automatically towards the fixed wing drone
4. The two drones connect automatically in the air
5. The two drones exchange the physical package
6. The multicopter drone flies down and
7. Delivers the package accurately to the final destination
8. The multicopter returns to base
9. The Fixed Wing returns to logistics hub