

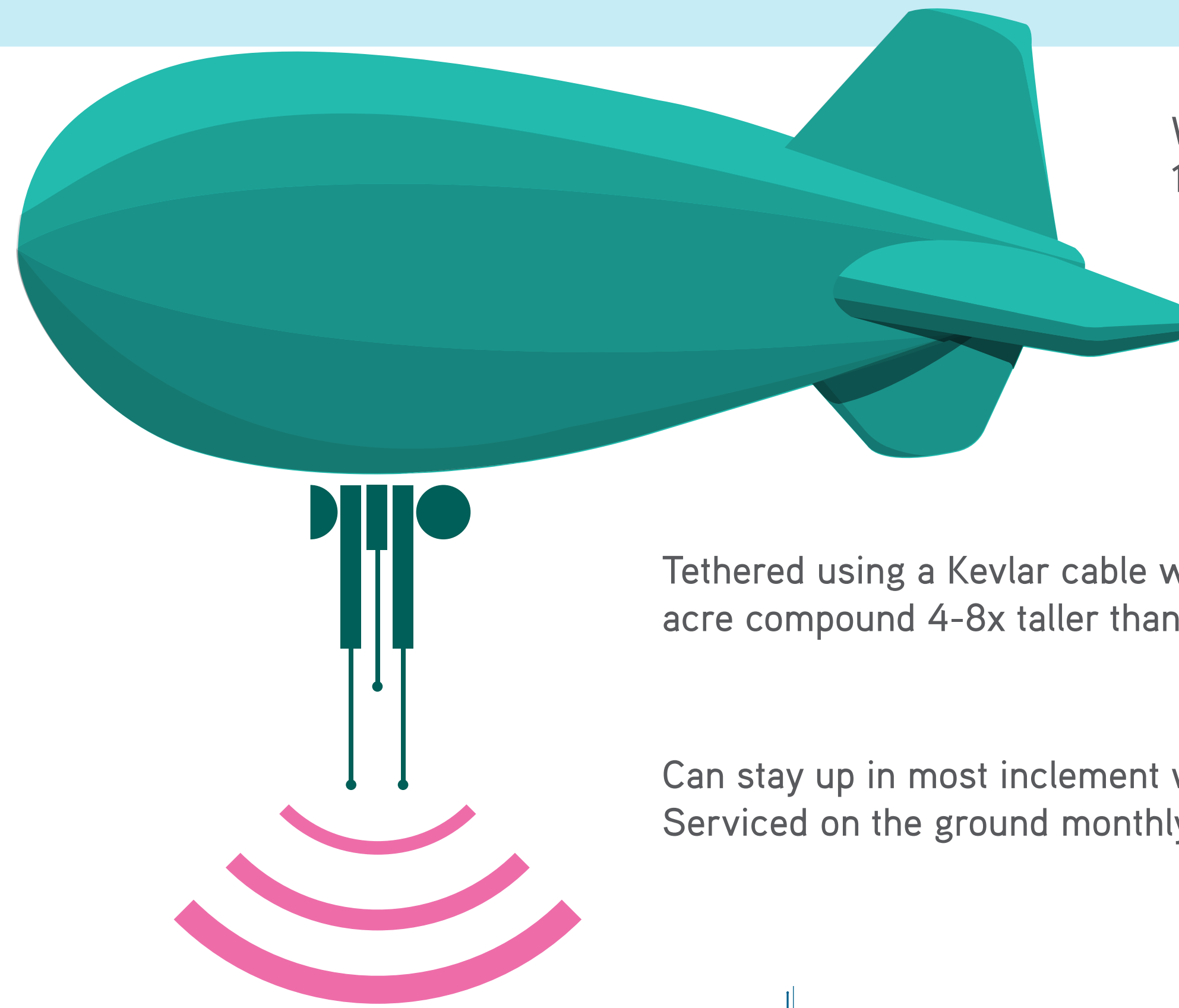
OUR COUNTRY'S *first rural* CONNECTIVITY AEROSTAT

We've developed the first telecommunications aerostat to be deployed in the U.S. for rural connectivity.

By innovating the geometry of the network 1,500-2,500 feet up, we get a larger propagation map, and the higher altitude aerostat can help solve the line-of-site problem.

Antenna heights up to 2000 feet above ground provide 15-45x or more coverage than a typical cell tower, leading to 60-70% lower total network costs

Fully automated controls and 24/7 remote monitoring ensure reliable operations



WHIN's aerostat is officially permitted to fly by the FAA under Section 101 with flight operations supervised by Grissom ARB and O'Hare.

Aerostats, or tethered aerodynamic balloons, have been around since the early 1900s.

Tethered using a Kevlar cable with fiber and power to the ground within a half acre compound 4-8x taller than traditional towers.

Can stay up in most inclement weather as long as it is below the cloud ceiling. Serviced on the ground monthly.

OPERATING LIMITS

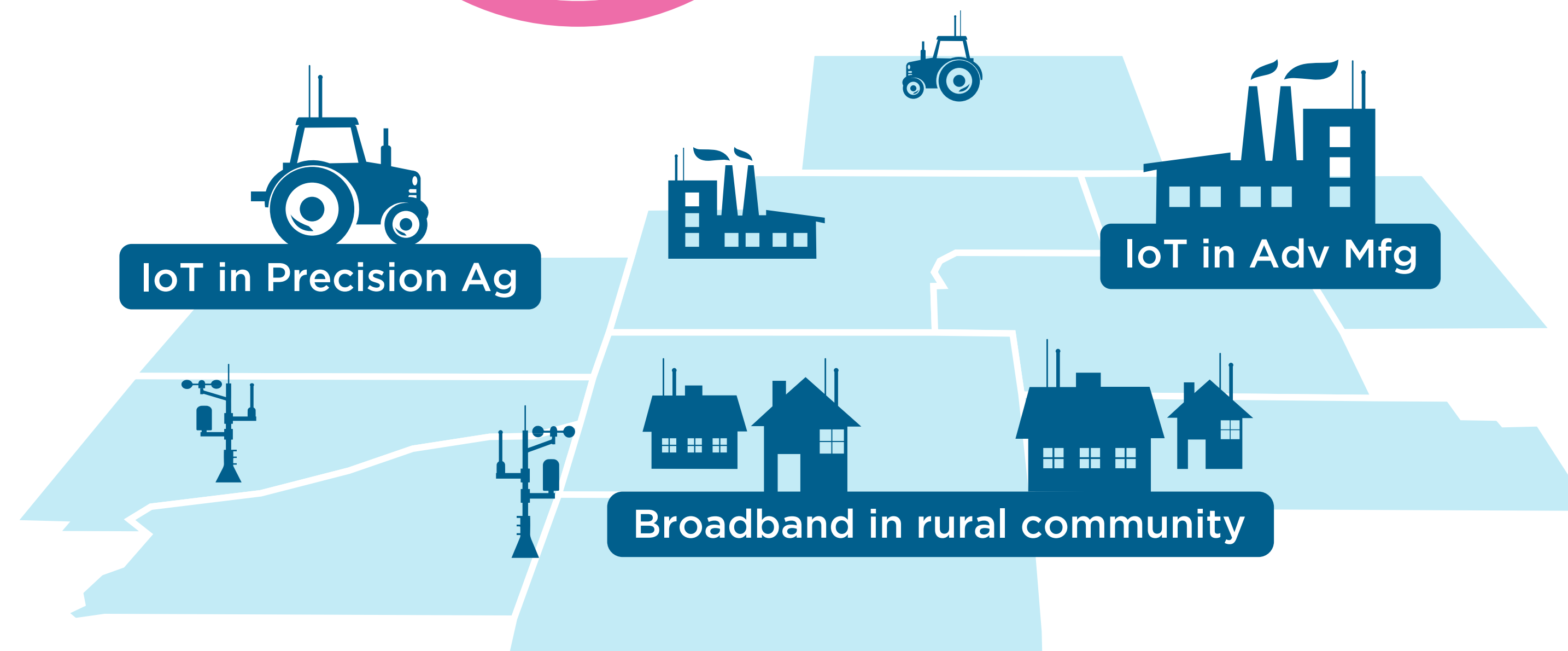
Ambient Temp **-20 TO -50C**

Wind **GUSTS TO 118KM/HR**

Rain **1.2IN/HR**

Snow **6IN/HR**

Lightning **100KA (99TH%)**



Up to 500 lbs. of payload capacity enables deployment of off-the-shelf macro-scale equipment for high speed mobile connectivity for IoT applications.

AeroSite technology is the result of 8 years of development by WHIN partner, RTO Wireless, enabled by proprietary modeling and design tools developed in-house and validated against extensive testing. Many U.S. and international patents awarded or pending.



Wabash Heartland Innovation Network
AeroStat Parameters | 2021

