Drone Deliveries to Driverless Cars – Your Village in 2027
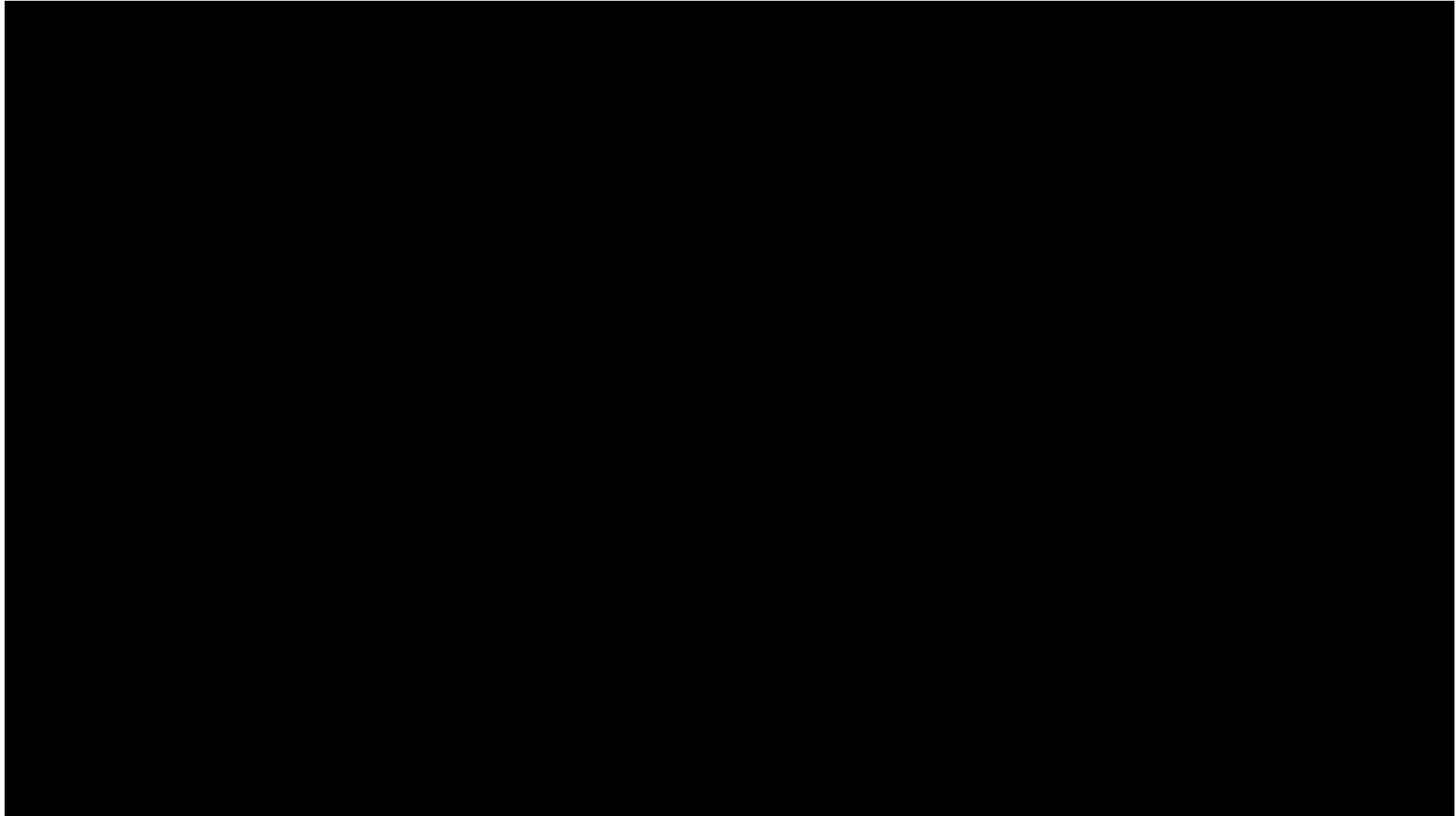
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Technology Trends

- Drones
- Electric Vehicles
- Autonomous vehicles
- 5G & Full Fibre

Overview of the session

- Look at the technologies
- Who are the rural winners?
- Who are the rural losers?
- What are the mitigations for the losers?

Drone deliveries

Electric Vehicles

Autonomous Vehicles

Connectivity – Fibre & 5G

Winners and Losers

- Drones
- Electric Vehicles
- Autonomous vehicles
- 5G

Drone Deliveries

- Who will decide on drone highway networks?

- Do you want local drone fulfilment centres?

- Will this increase isolation?

- Winners
    - Amazon, online delivery companies, fewer vans congestion, *some* customers, businesses, jobs in fulfilment centres, farm buildings converted to fulfilment centres

- Losers
    - Local shops & producers, residents (noise, privacy)

Electric Vehicles

- Will we see the mass adoption of electric vehicles in rural areas?
- Positives
  - Diesel / petrol price discussions.
  - Link with renewables could make some people fuel self sufficient
  - Village halls could use their car parks for electric vehicle charging points for those people with no driveway
  - Battery back-ups for villages, providing off grid power at night, stored from renewables
- Negatives
  - High cost
  - Loss of jobs in garages
  - Loss of control of vehicle maintenance

Autonomous vehicles

- Will autonomous vehicles be available on demand in a village?
- Positives
  - Help to young and elderly rural citizens be more mobile without the need for their own cars
  - No need for drink driving – good for rural pubs
  - Improved safety
- Negatives
  - Who will pay for them?
  - Rural bus services & taxis
  - "no coverage areas" – remote places, single track lanes

Connectivity

- Will much better connectivity improve rural areas or leave them stranded in the internet slow lane?
- Positives
  - More access to better entertainment, ability to run businesses etc
  - Improve chance for people to locate in rural areas
- Negatives
  - Rural vs Urban divide if networks are not developed.
  - Access to fibre infrastructure
  - Internet behemoths suck revenue out of rural communities

Summary

- Each technology will create rural winners and losers

- Consider the costs and benefits now

- Have an informed debate and work out your approach

- Manage expectations

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