

# BAPCO<sup>2020</sup>

The Annual Event for Public Safety Technology

10 - 11 MARCH 2020

RICOH ARENA, COVENTRY

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# Unmanned Air Systems For Search & Rescue/Disaster Reli



## SAR in The UK

*The UK responsibility for  
maritime, aeronautical and  
land SAR lies within the UK SAR  
Region*

*It covers approximately  
2 million square miles*



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## SAR Platforms (Airborne)

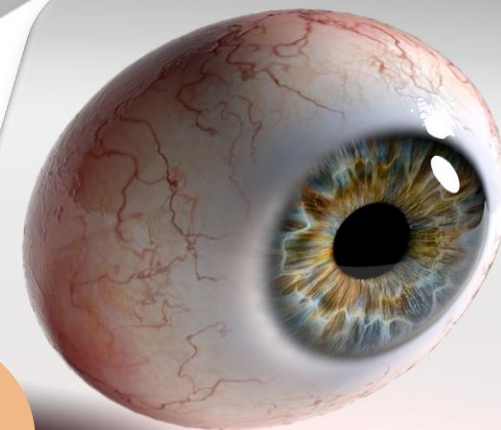


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# SAR Sensors (Airborne)

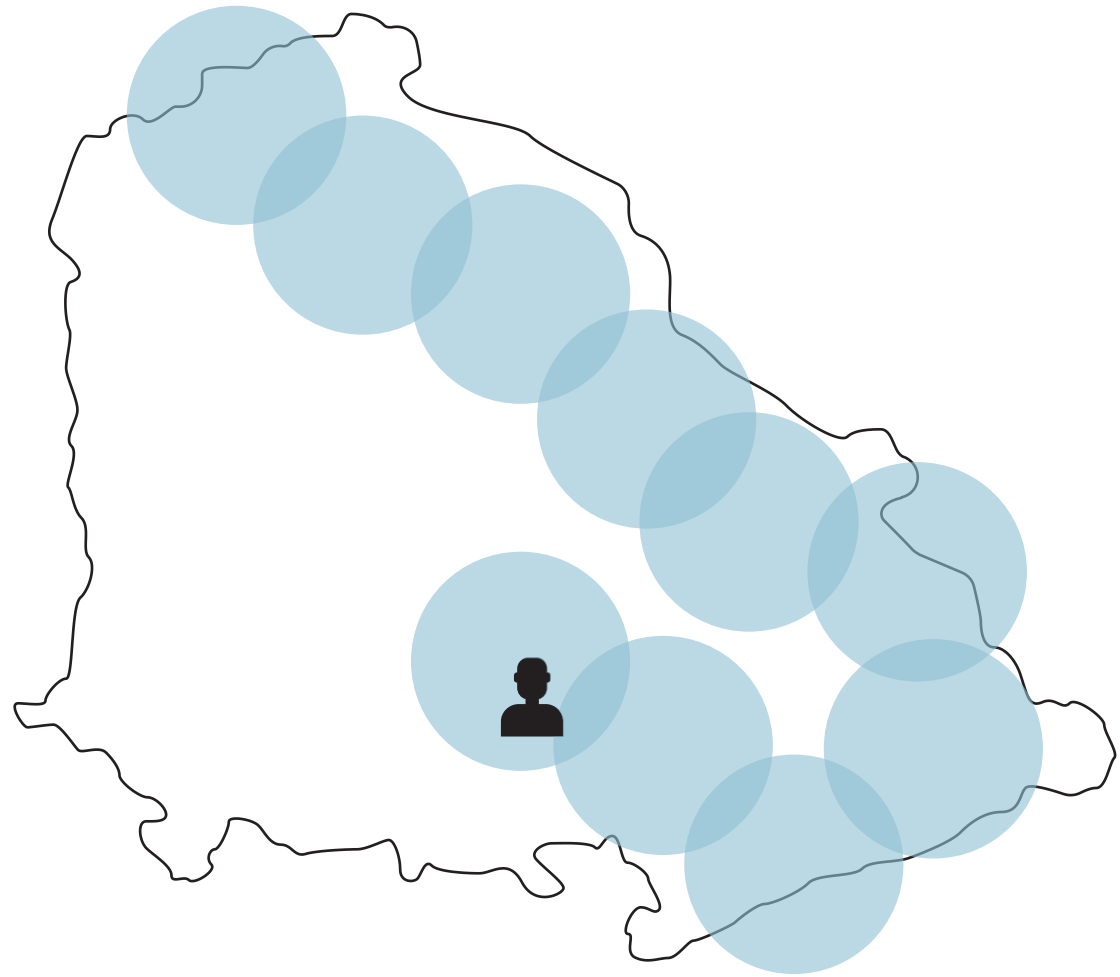
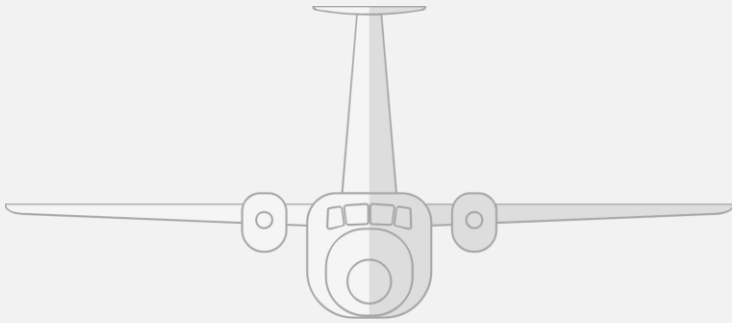
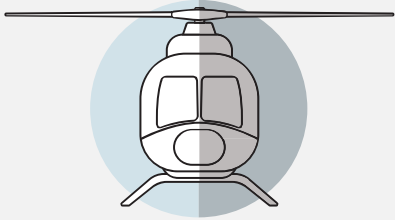
IR



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RESOLVED:  
person found

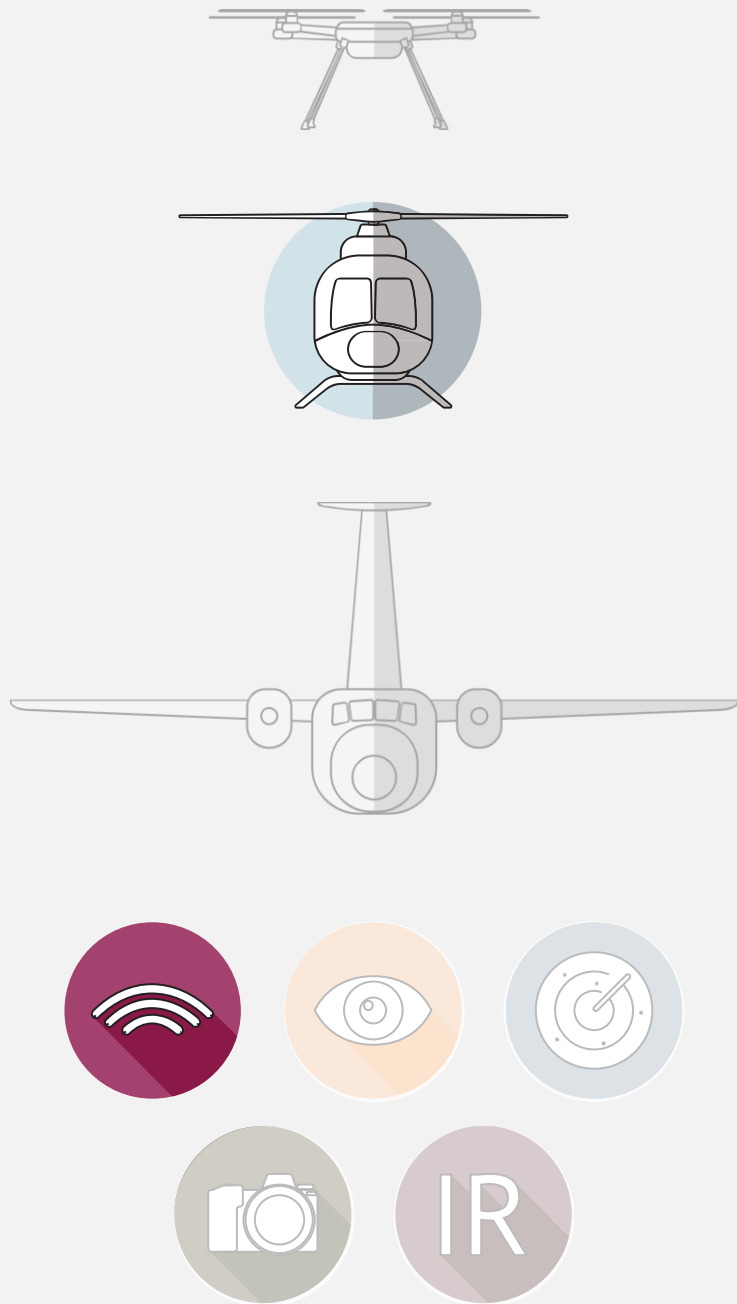


## What Else Transmits?



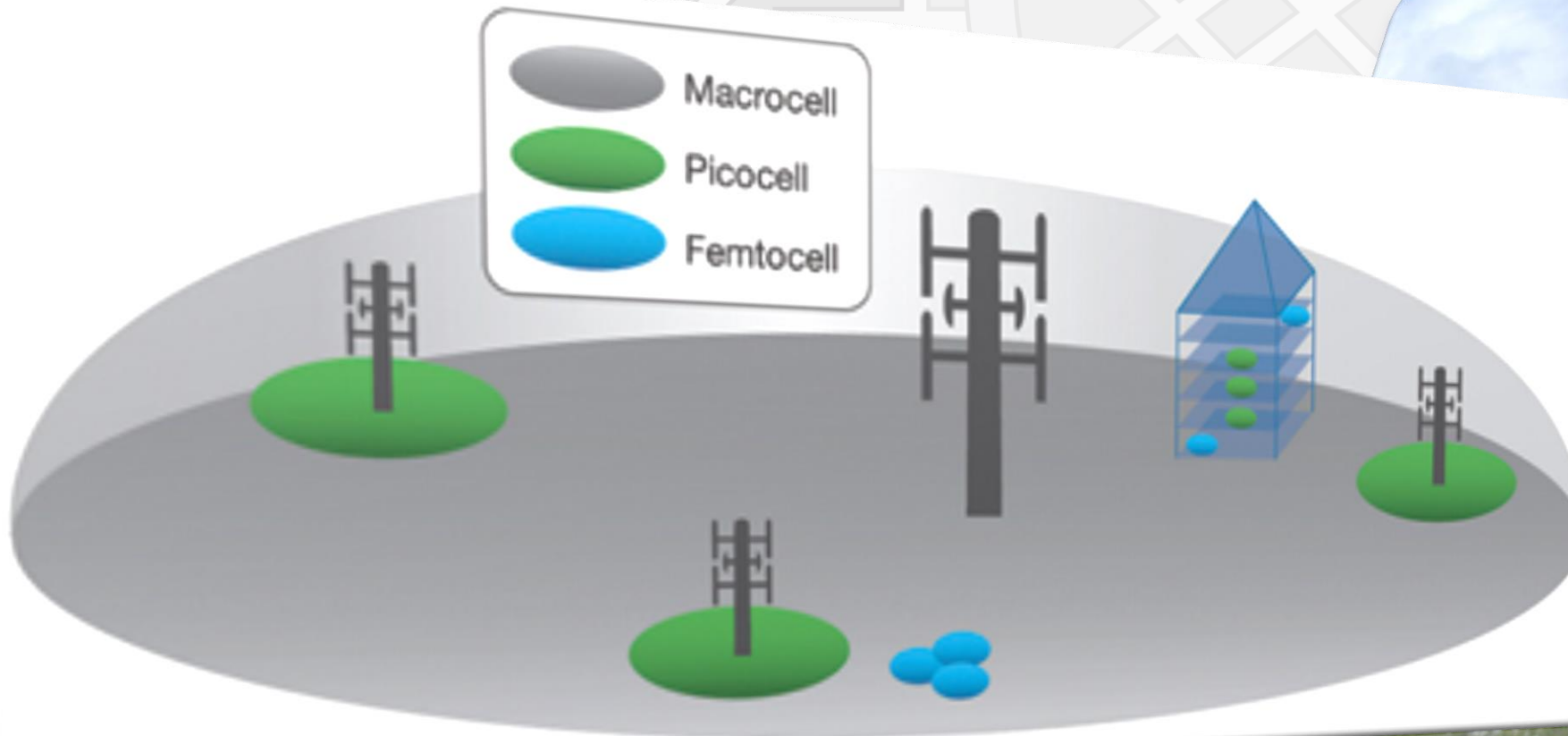
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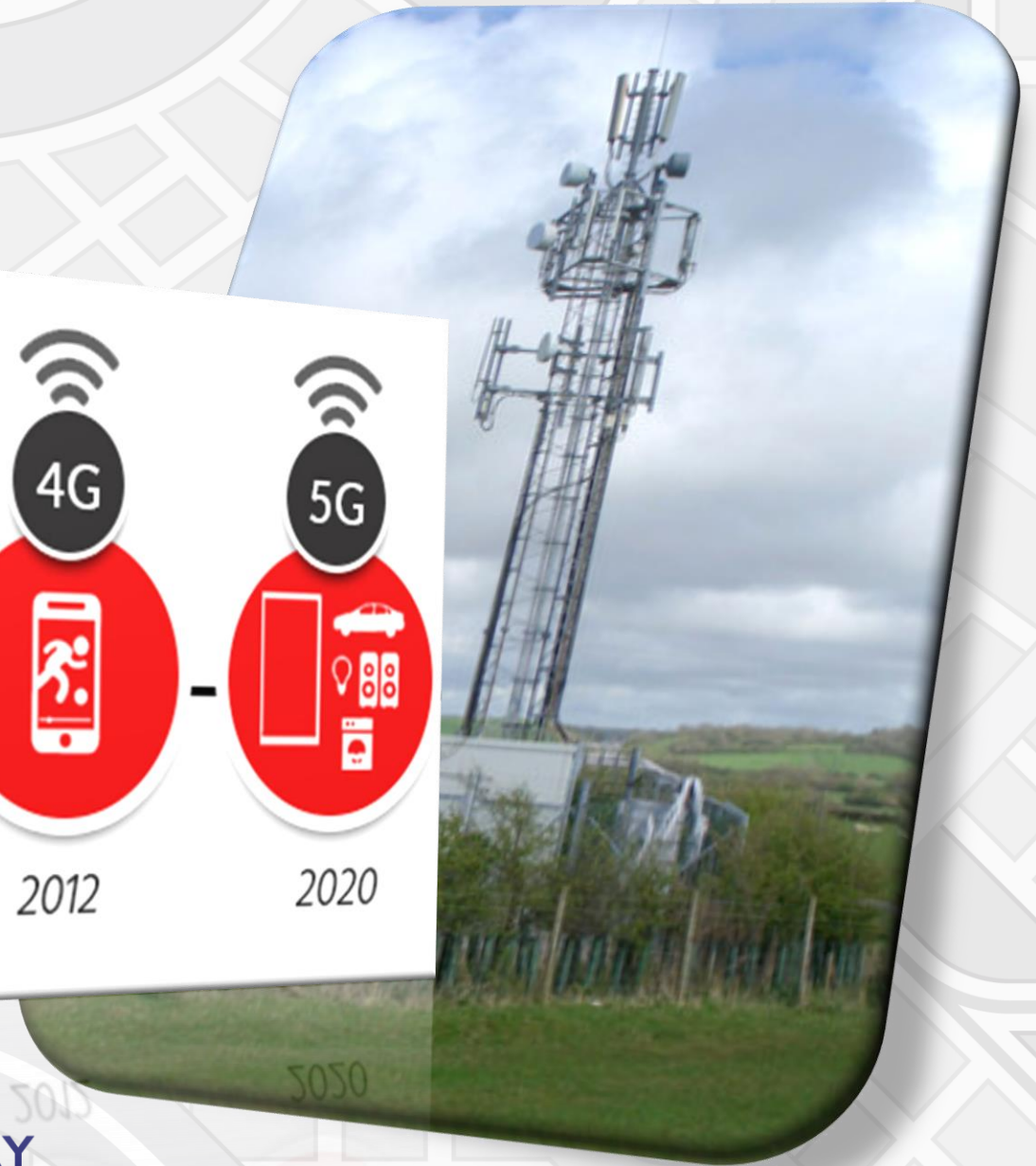
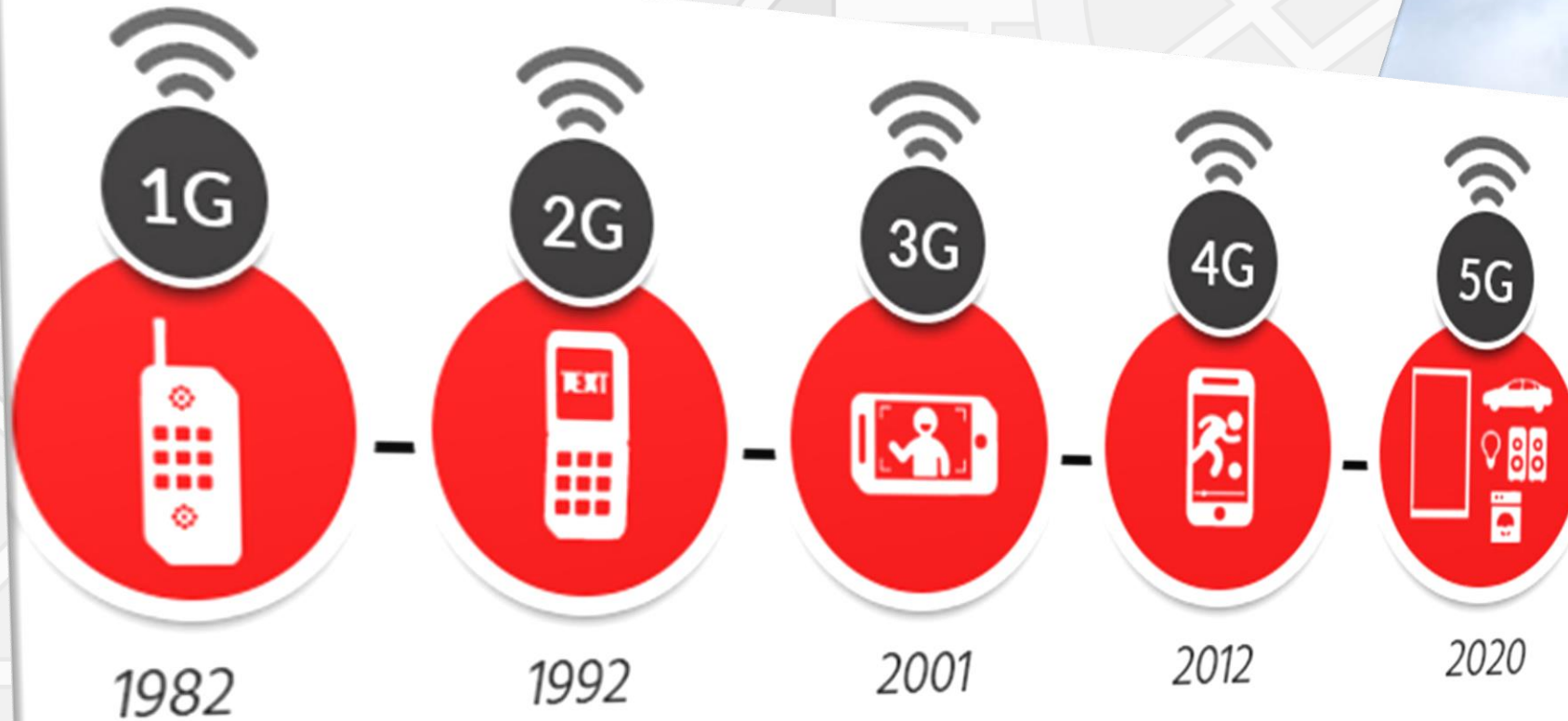
✓ RESOLVED:  
person found

## What does it transmit to?

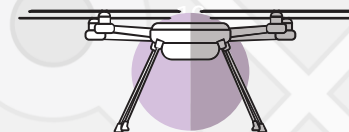
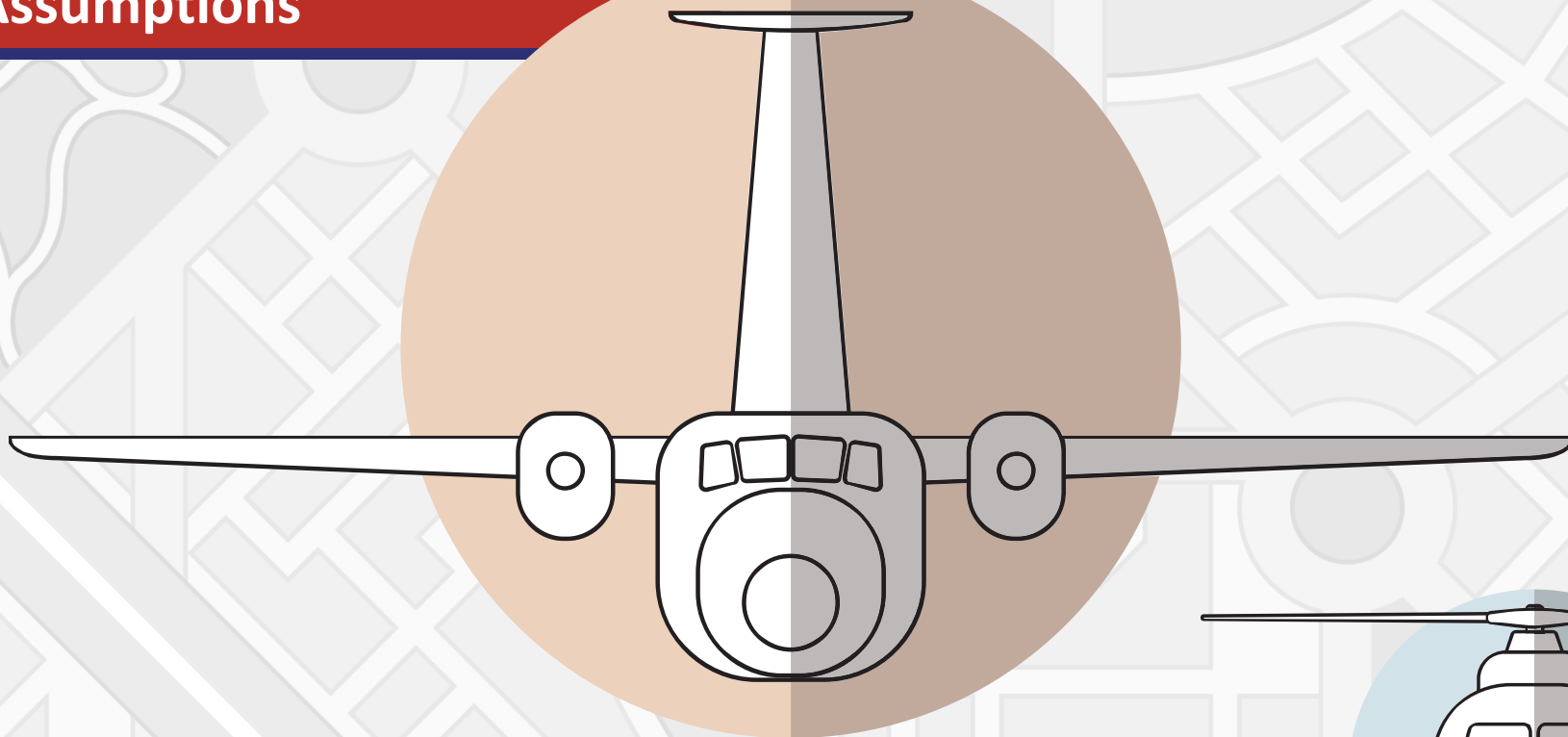




## What “technology”?



# Assumptions



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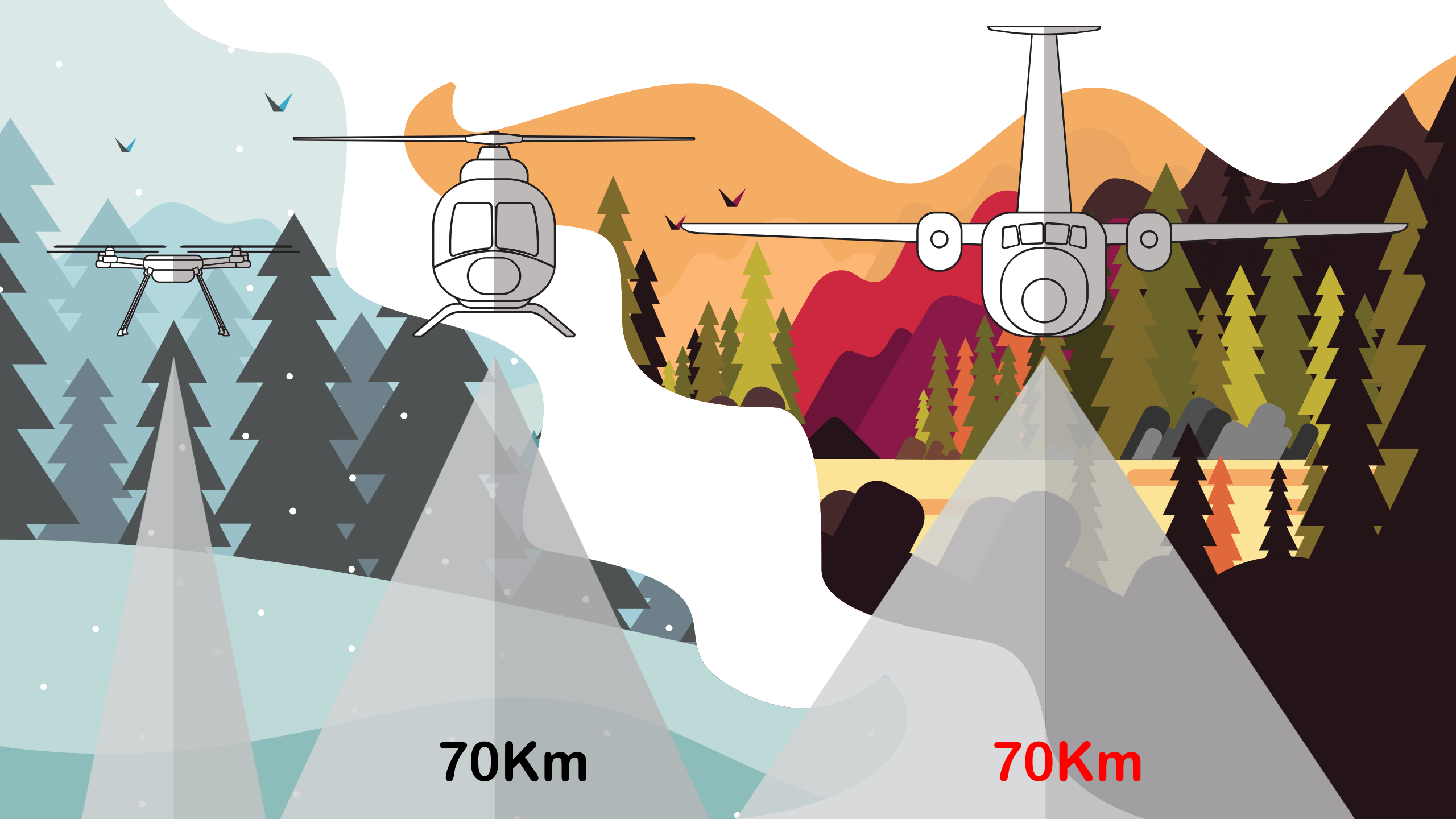




Obvious place to start.....



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70Km

70Km



What did we get.....



What did we do it on.....

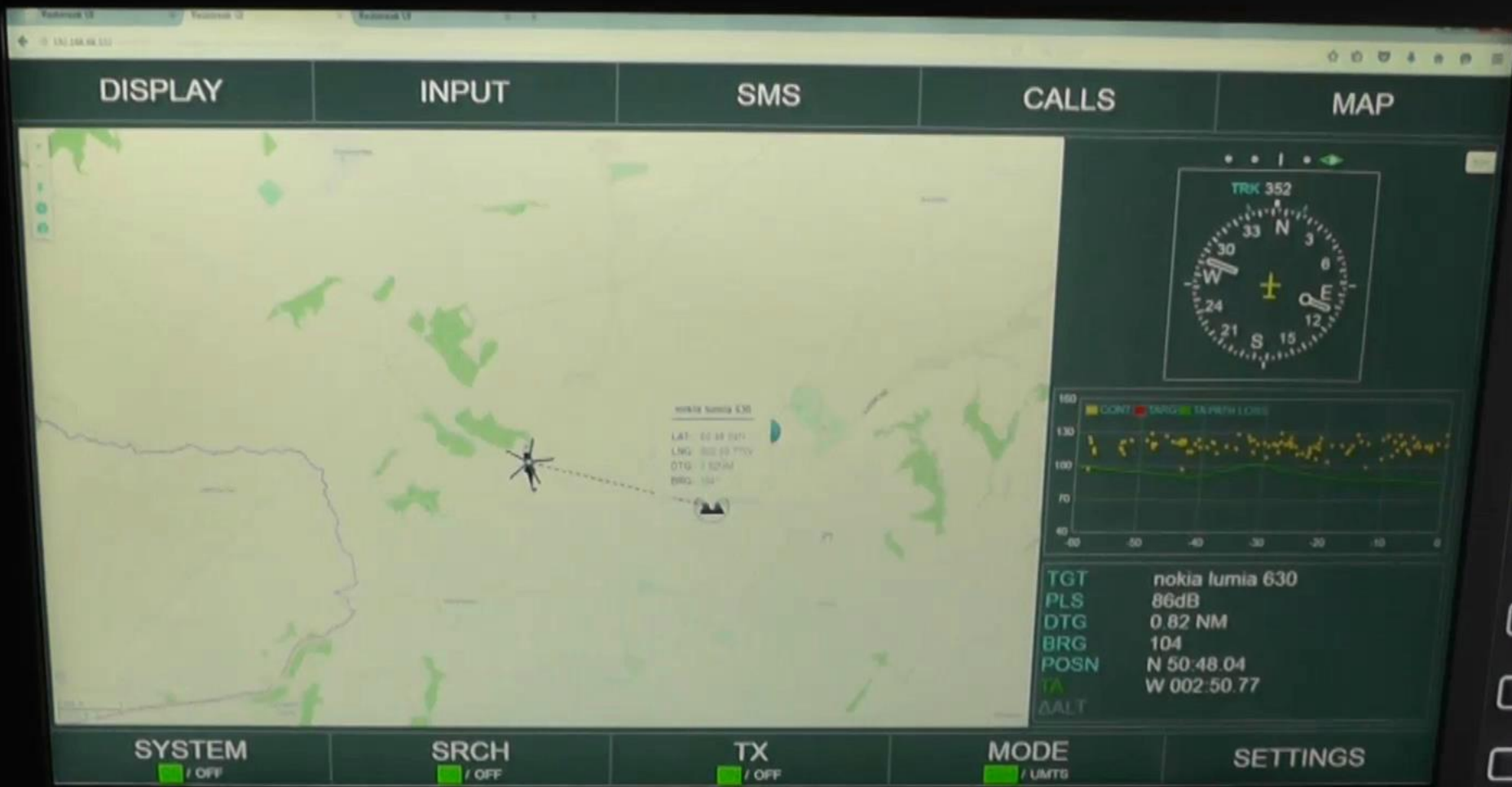


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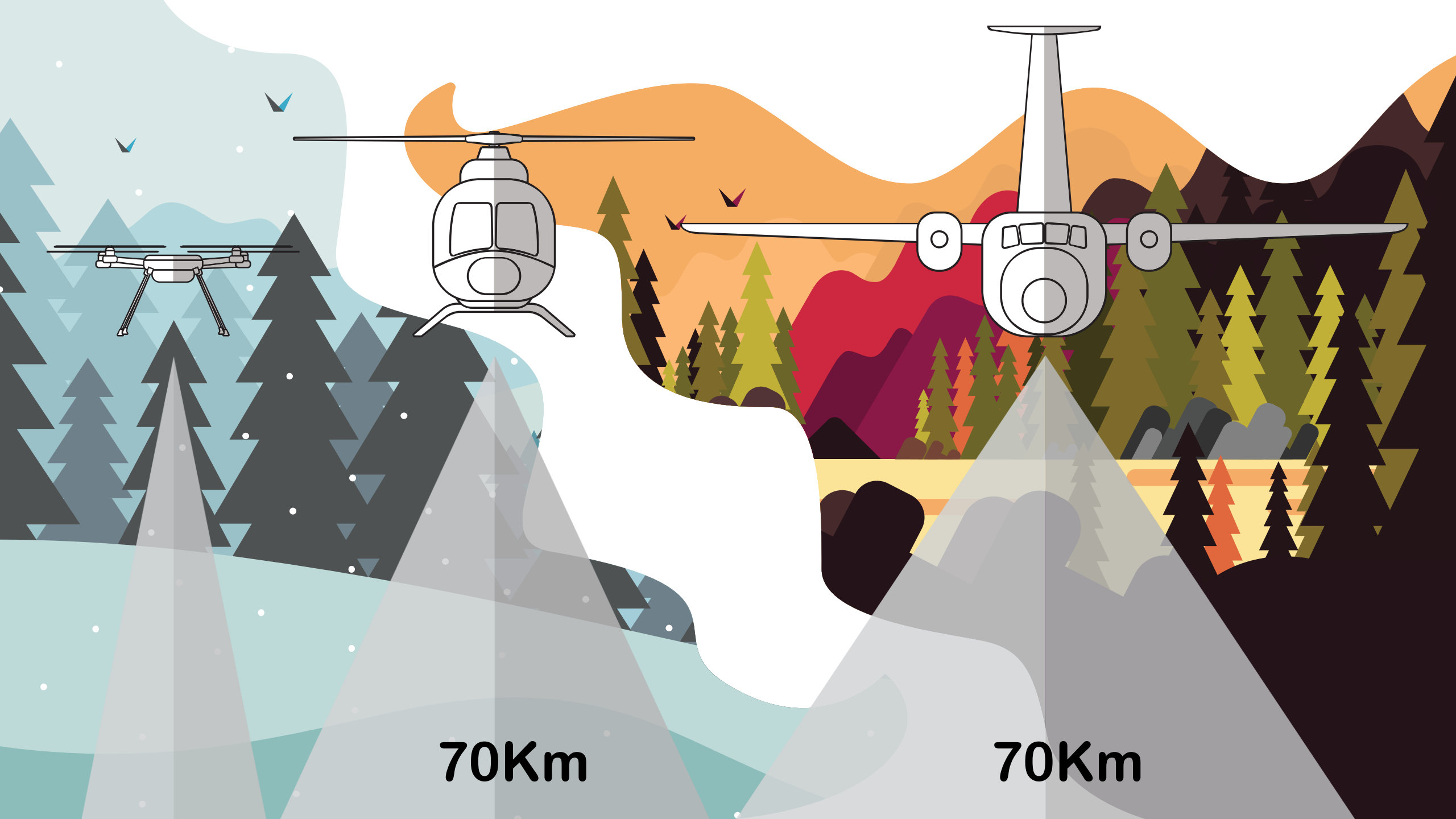
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RDD5







70Km

70Km

What did we do it on.....



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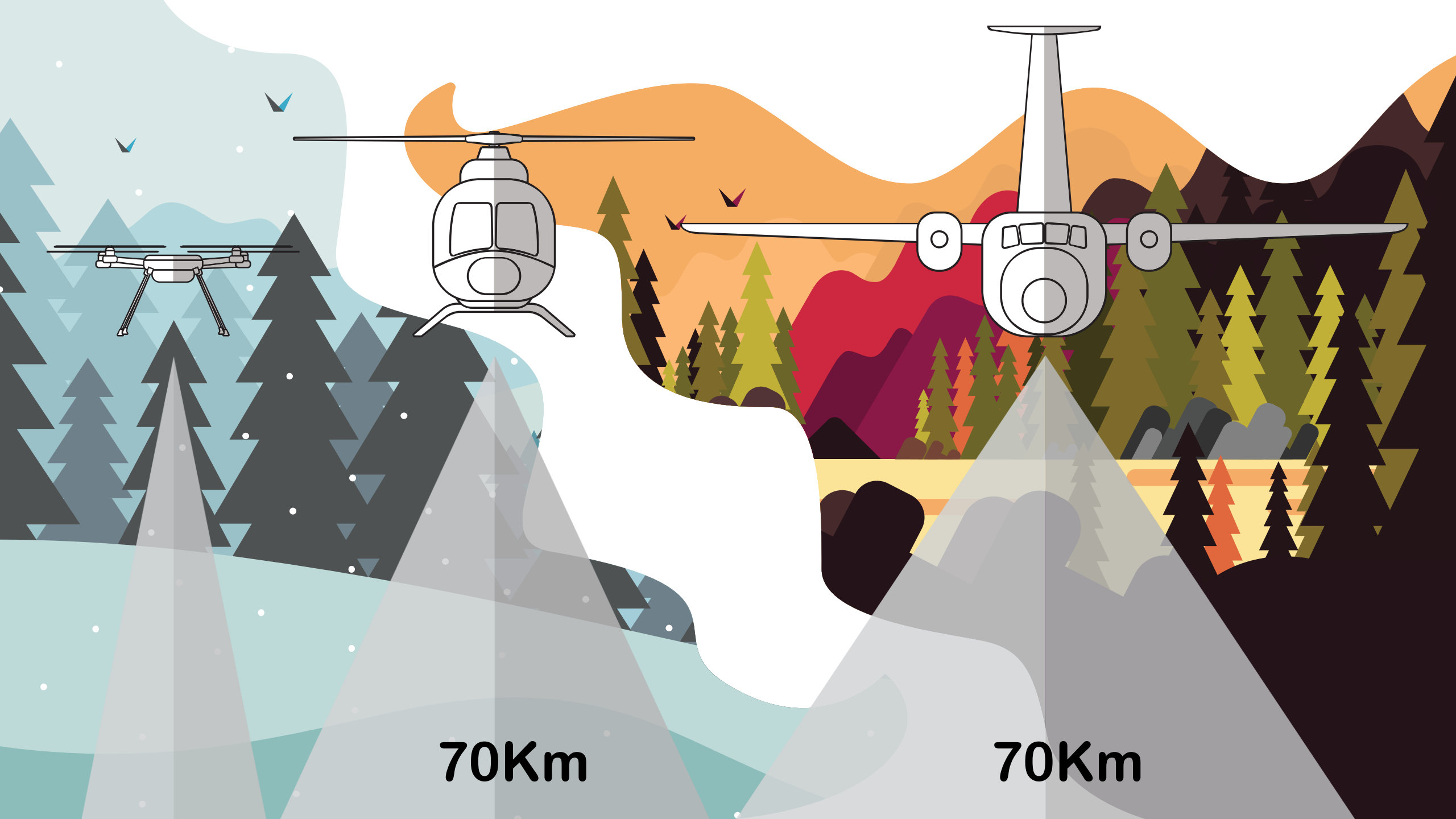
Statistics.....



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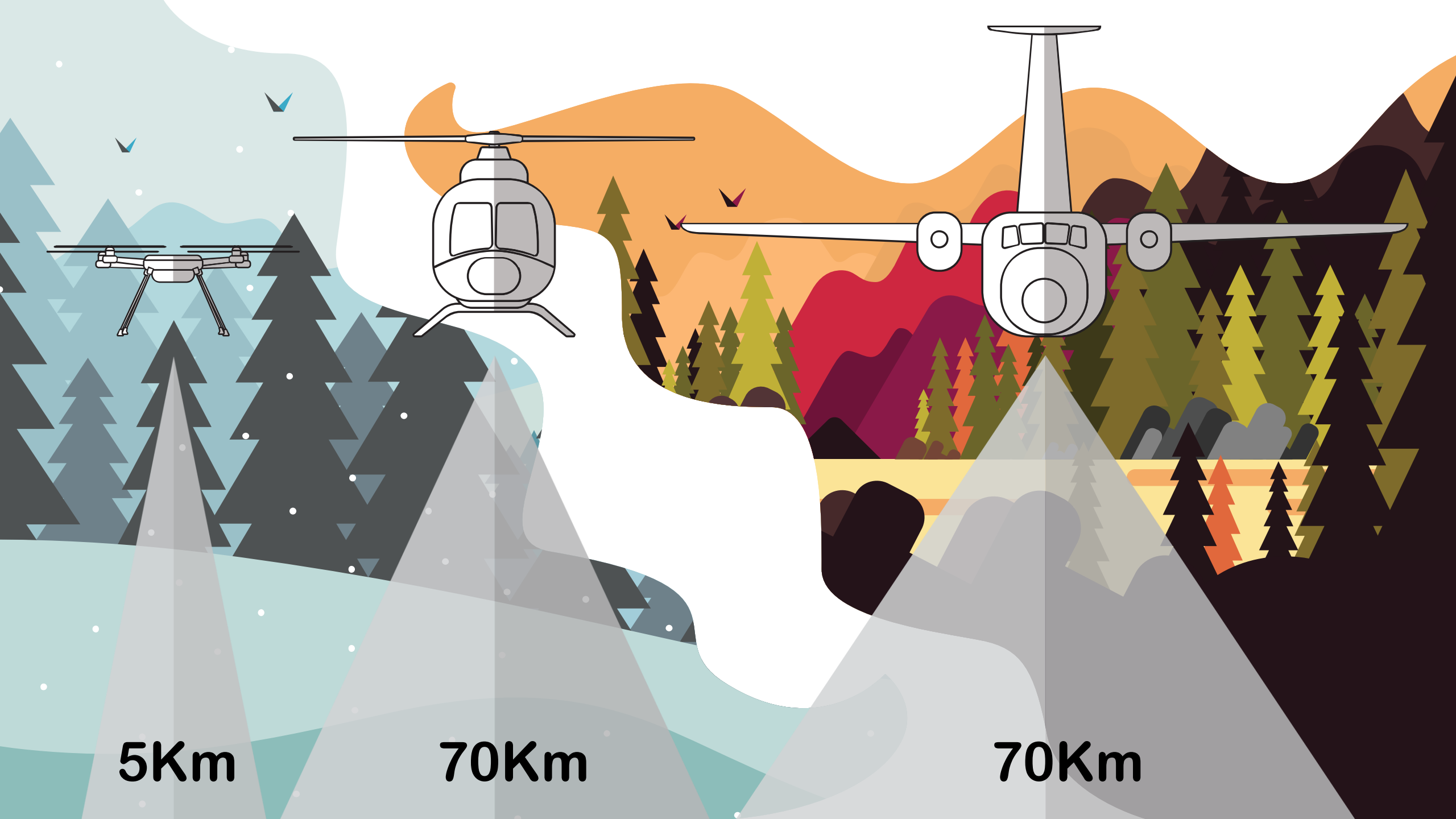




70Km

70Km





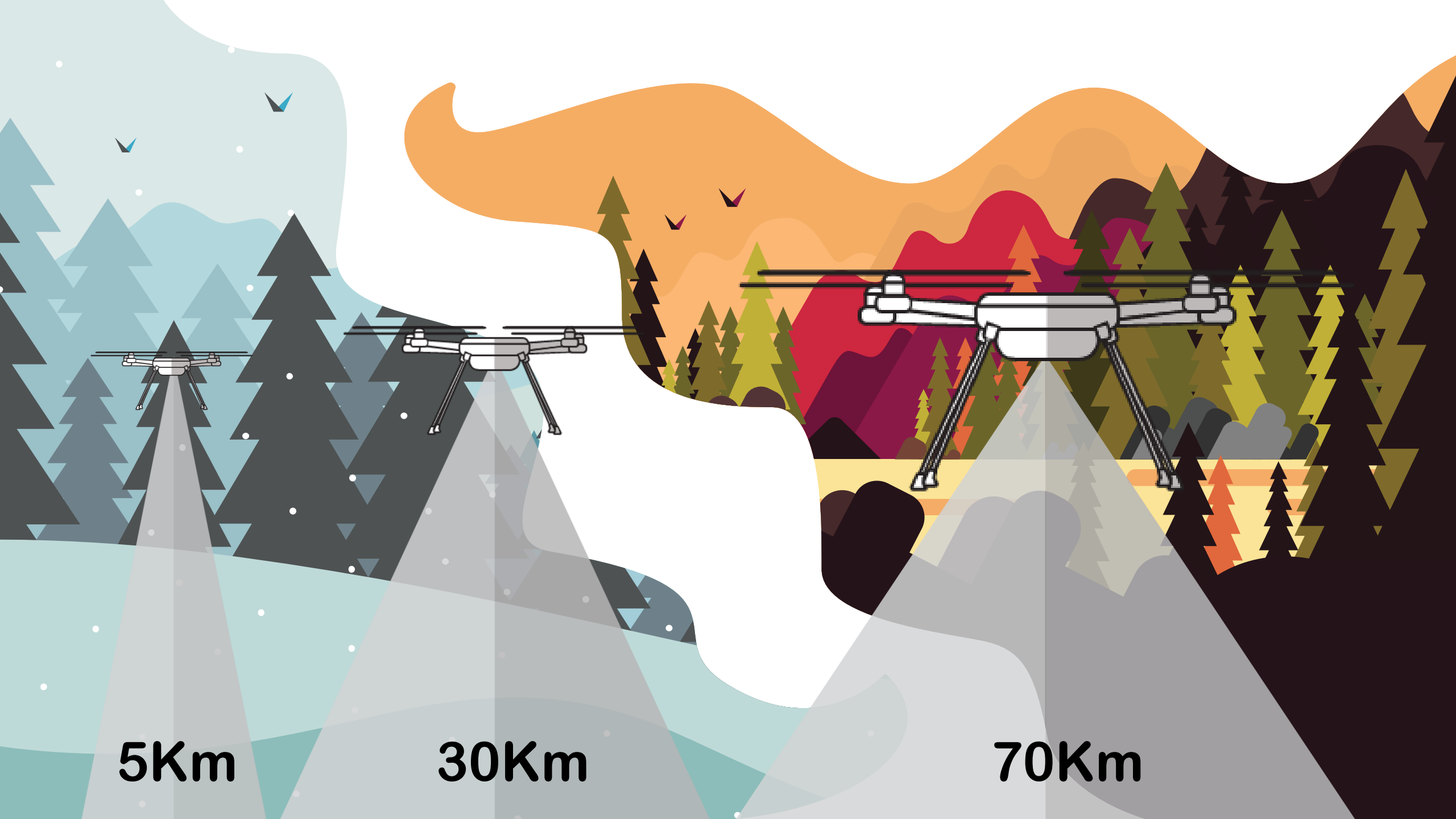
5Km

70Km

70Km







5Km

30Km

70Km



Forward Facing Directional Antenna





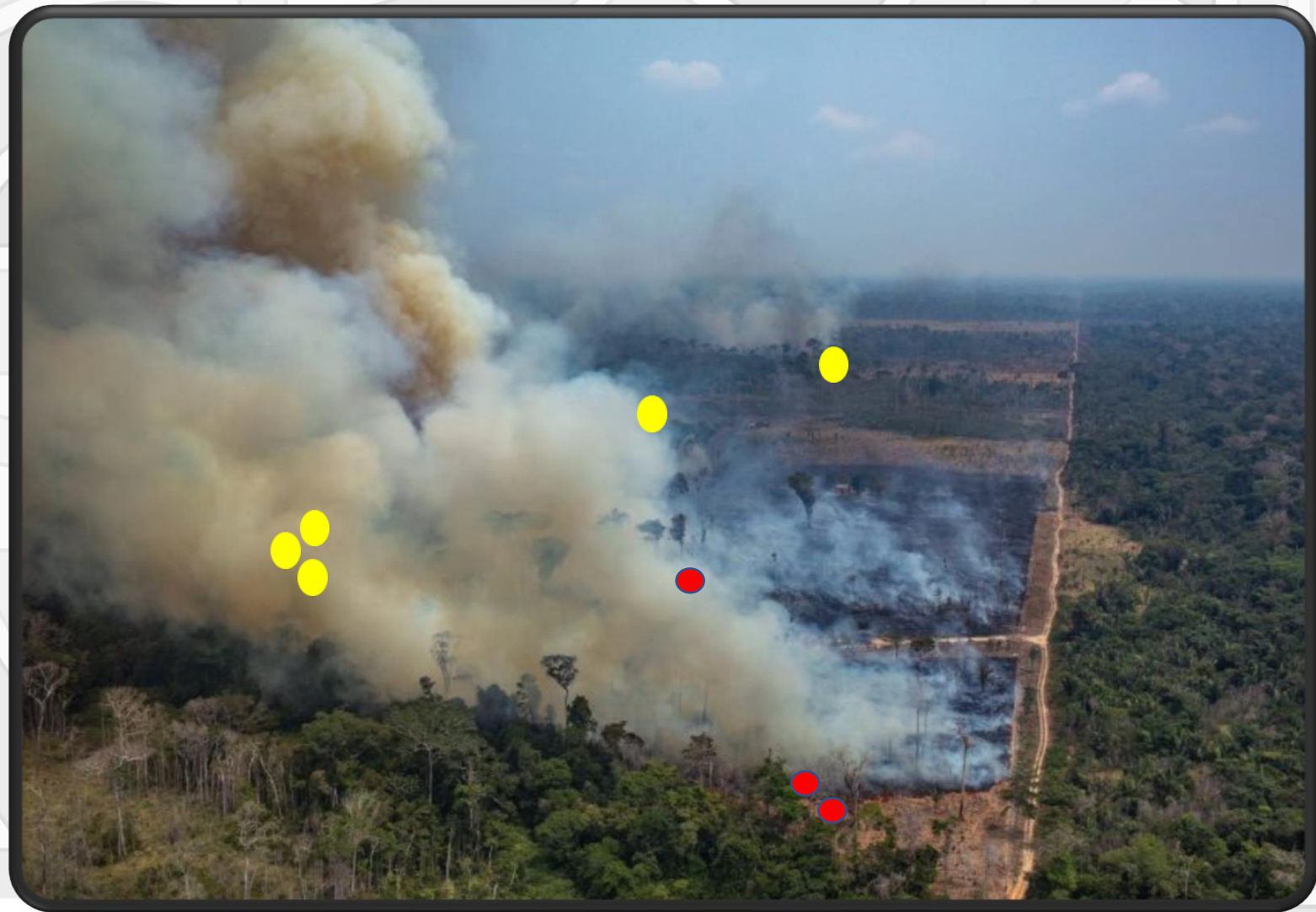


What can it show.....





What can it show.....

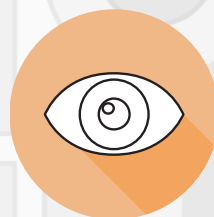




What can it show.....



## UAV in SAR – A New Sensor



IDENTIFY  
LOCATE  
STEER  
COMMUNICATE



## Recognition



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