



**ARLISS 2009**

**TOKYO UNIVERSITY OF SCIENCE  
KIMURA-LABORATORY**





# *Objective*

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- *The proof of the camera technologies at our laboratory*
- *To get know-how of system development and project execution*
- *Hand down technology*



# *Mission*

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## *Real-Time Picture Transmission*

- *Minimum Success*

*Down-link GPS data from cansat.*

- *Middle Success*

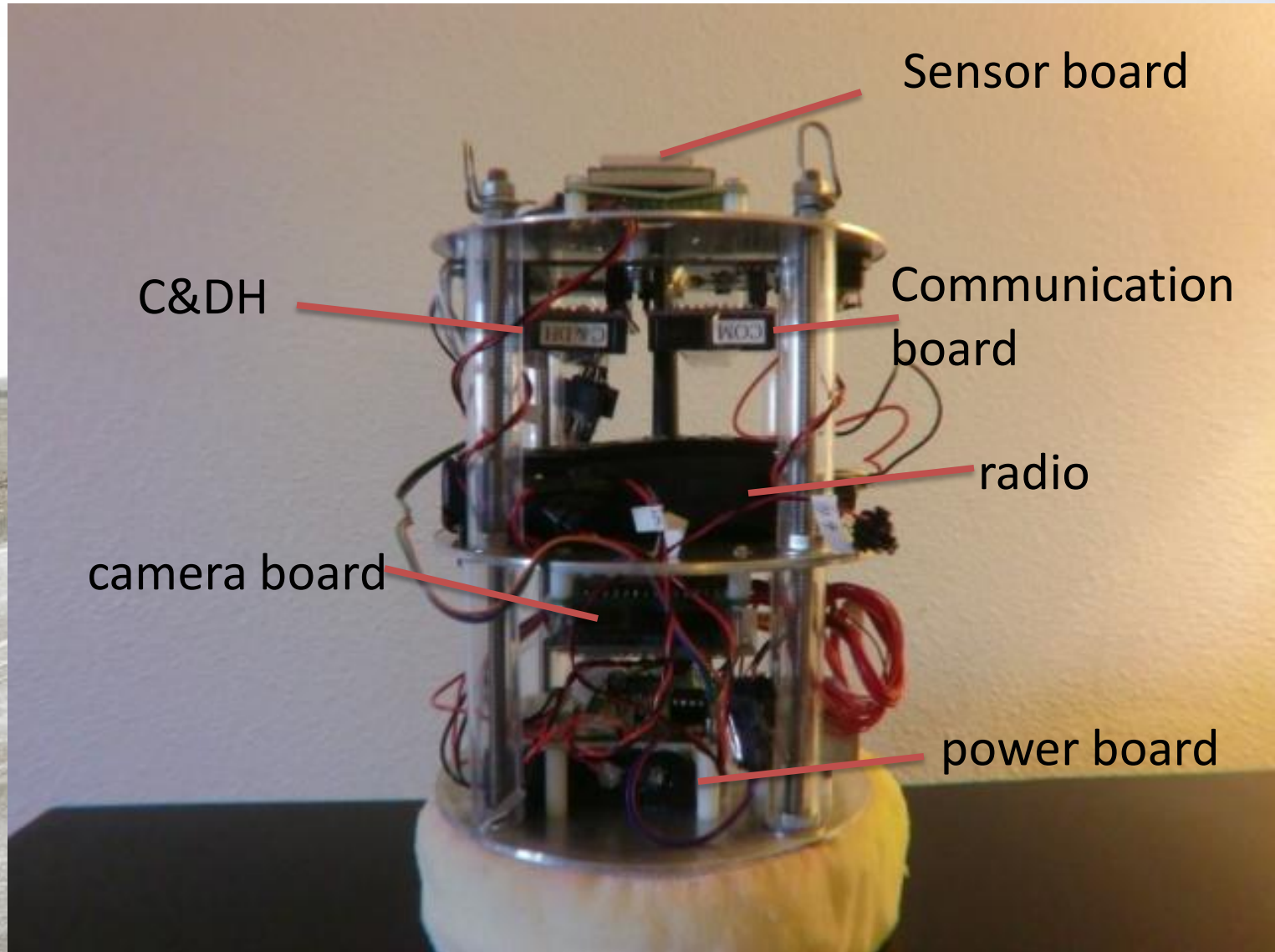
*Save pictures continuously to onboard SD card.*

- *Full Success*

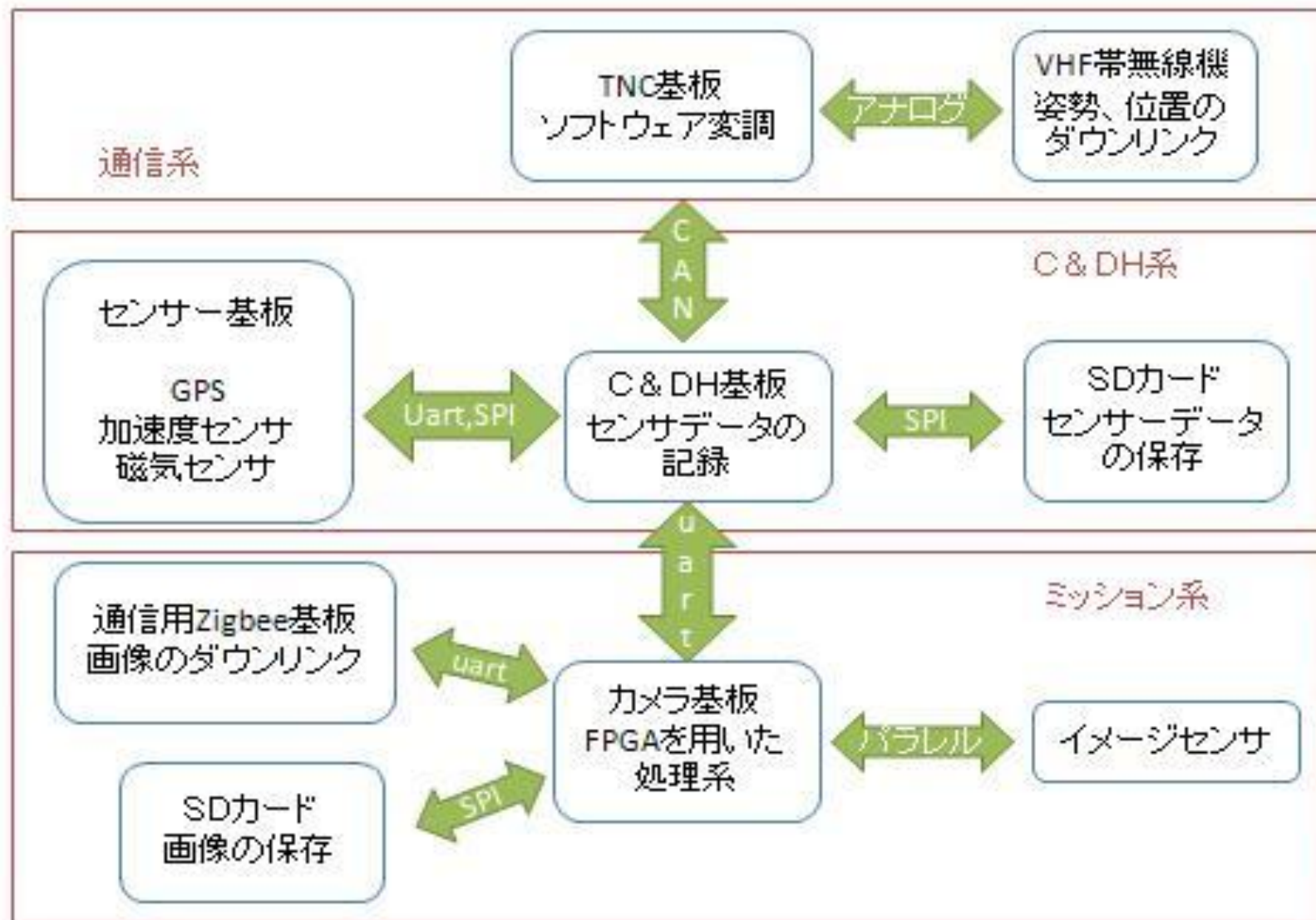
*Real-time transmission of the thumbnails on 2.4GHz radio.*

# *Feature*

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# System diagram





# *Result-1<sup>st</sup> flight*

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At 40.83655N, 119.1381W, 1480.5m

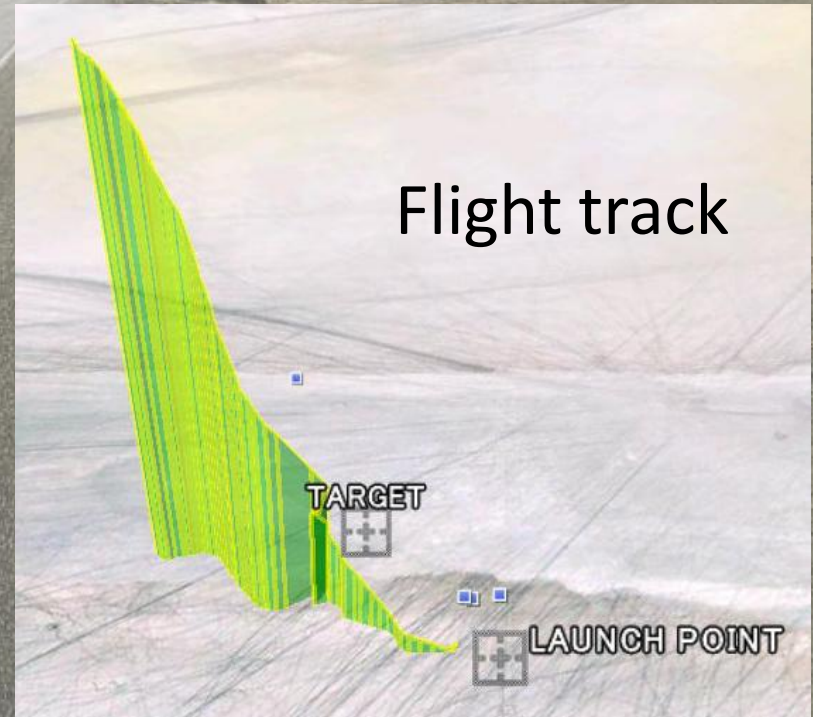
Downlink image



SDcard saved image



Flight track



# *Result-2<sup>nd</sup> flight*

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Downlink image



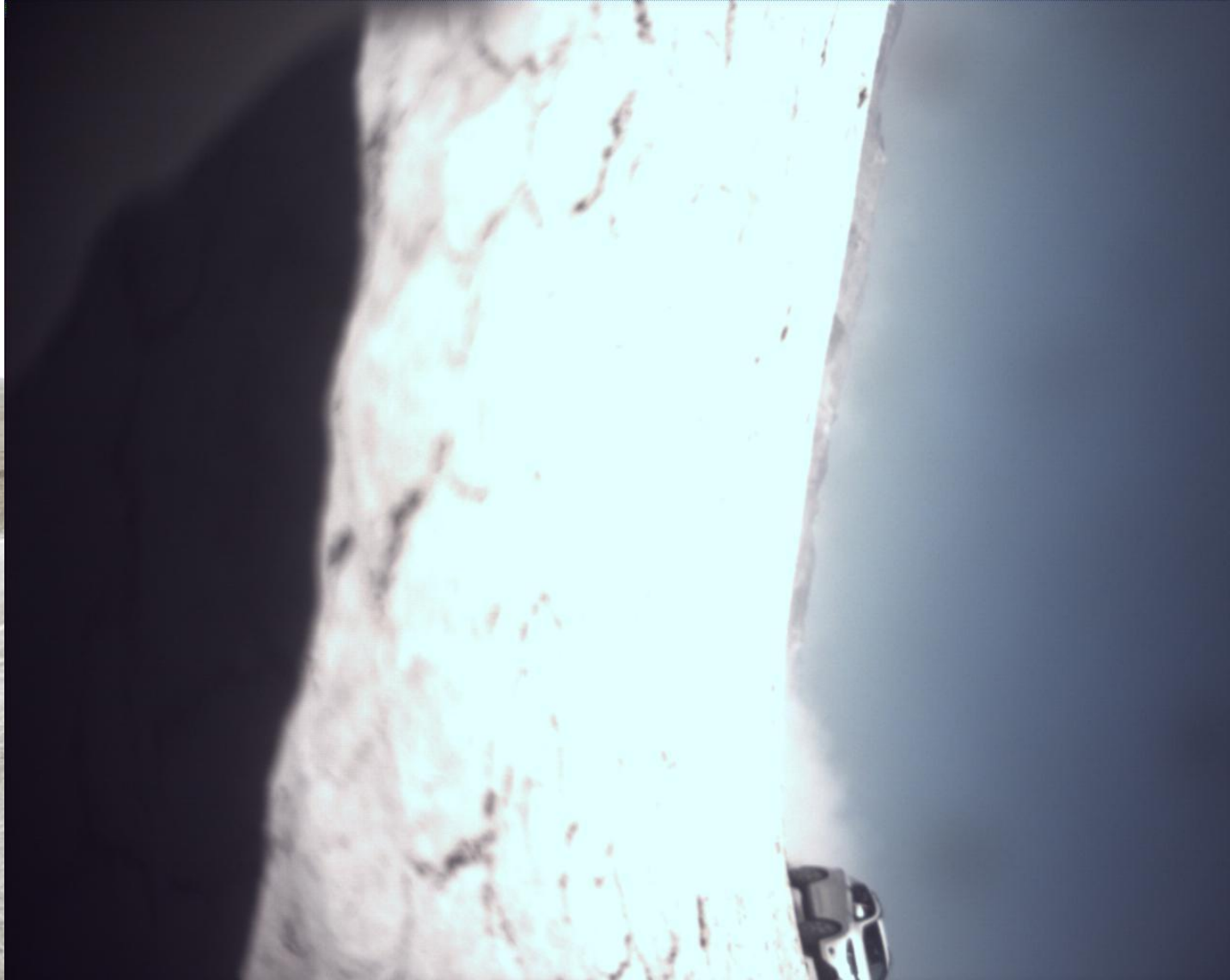
SDcard saved image





# *Result-2<sup>nd</sup> flight*

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**THANK YOU!**

A wide-angle photograph of a two-lane asphalt road stretching straight into the distance. The road is flanked by dry, sandy desert terrain with sparse, low-lying shrubs. In the far distance, a power line tower is visible against a hazy, light blue sky. The overall scene conveys a sense of journey and openness.