
[RTE - Network Inspection Automation](#)

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Deadline

17 July 2024

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- Description

RTE is the French transmission system operator. As a public utility company, its mission is to operate, maintain and develop the network of high and ultrahigh voltage lines. RTE must guarantee the proper operation and safety of the electricity network, while ensuring free and fair access to all users of this network. It transports electricity between power suppliers (French and European) and consumers, whether they are electricity distributors or manufacturers directly connected to the transmission network. As part of the R&D Asset Management Programme, the Network Inspection Automation roadmap is working on improving the efficiency of network inspection with the use of automated data acquisition and analysis. To achieve its objectives, RTE defined 2 work package : Work package1 data acquisition with helicopters & Work package 2 automated detection of equipment and anomalies.

- Notes

Work package 1 Data acquisition with helicopters aims to cover a wide range of needs in terms of data acquisition to foster the development of automated inspection solutions: Conduct acquisition flights above power lines or substations with helicopters to acquire a wide range of data: photographs, LiDAR data, IR, IV, videos, 360° photo, etc. Test different flight configurations to acquire data (height, position, speed). Data annotation. Blurring of sensitive data for RGPD compliance (faces, car plates, sensitive information, etc.). Help RTE identify and integrate highcapacity payloads on helicopters (for both external flights and flights using RTE's helicopters).

Work package 2 Automated detection of equipment and anomalies: Developing specific machine learning models to meet RTE's needs (anomaly detection, equipment recognition, 360° photos/videos, LIDAR data processing)? Increasing the maturity of AI data processing:

data volumes, infrastructures, model training and testing, potential drifts, etc.? Provide input for the development of a data/AI industrial strategy: industrial architecture, continuation with external developments or inhouse development, etc.

POUR ALLER PLUS LOIN :

1/ se rendre sur : <https://rte-france.bravosolution.com>

2/ contacter éventuellement

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RTE

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Pièces du dossier



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