

26 november 2021



**SUBJECT / SUJET : Telecommunication systems – R&D : Quantum Technologies**

**SOURCES & METHODS INVOLVED / SOURCES ET METHODES EMPLOYEES**

- |   |   |
|---|---|
| <input type="checkbox"/> Investigation / Enquête                      | <input type="checkbox"/> Strategic planning / Planification Stratégique |
| <input type="checkbox"/> Documentary monitoring / Veille documentaire | <input type="checkbox"/> Instruction / Instruction                      |
| <input type="checkbox"/> Lobbying / Action lobbyiste                  | <input type="checkbox"/> Profiling Simulation / Simulation Profilage    |
| <input type="checkbox"/> Field Intervention / Intervention terrain    | <input checked="" type="checkbox"/> R&D / Recherche & Développement     |

**CONFIDENTIALITY LEVEL / NIVEAU DE CONFIDENTIALITE**

- Classified / Classifié
- Declassified / Déclassifié
- Sensitive / Sensible
- Confidential / Confidentiel
- Secret       Top Secret

**STATUS / STATUT**

- |   |  |
|---|--|
| <input type="checkbox"/> Pre-project study / Etude avant-projet | <input type="checkbox"/> Started / Démarré   |
| <input type="checkbox"/> Stand-by / Mise en attente             | <input type="checkbox"/> Adjourned / Ajourné |
| <input checked="" type="checkbox"/> Completed / Finalisé        |  |

**RESULT / RESULTAT**

- Achieved / Atteint
- Partially met / Partiellement atteint : ... %
- Not Achieved / Pas atteint

**AREA / ZONE:** Worldwide



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## 1- CONTEXT

- Extract from report 5850R\_IRRA003\_UNRE:
  - Conclusion: radio frequency-based telecommunications methods are highly prejudicial to living organisms and obsolete given the significant technological improvements of the past few years.
- In accordance with the aforementioned report, quantum technologies have been identified as one of the best replacement solutions for radio frequency-based telecommunications methods.
- We are aware that some countries have been working on the development of such technologies since a long time.

## 2- OBJECTIVES

- Following the strategic plan in order to replace radio frequency telecommunication systems (report 5850R\_IRRA004\_PLST), establish a collaboration between one of these countries, several leaders of large industrial groups such as Elon Musk, and a Owl unit specially trained for this mission.

## 3- ACTIONS

- Jul. 2016: Raven units have establish contact with the governments of countries working on quantum technologies, and then maintain a permanent connection with the most cooperative ones.
- Aug. 2016: dedicated Owl unit has been trained in quantum technologies thanks to specialized researchers from the selected countries (see report 5850R\_IRRA007\_REFO).
- Nov. 2016: launch of research and development based on the work already done in the selected countries.
- Sep. 2018: finalisation of the development of quantum telecommunication technologies.
- Dec. 2019: contact established by Raven units with prominent industrial groups, including especially those linked to Elon Musk, with the aim of mass production and optimisation of the previously developed technologies.

## 4- RESULTS

- These quantum telecommunication systems are significantly more efficient than any other technology currently available on the market:
  - No interference from any source whatsoever.
  - Limitless range due to the quantum entanglement property.
  - Much higher data rate than all other available technologies.
  - Data interception physically impossible.
- According to the Owl unit, embedded system on satellites is unquestionably the most efficient deployment and operating approach.



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Report writer

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