

6.11 Perform Research Development Test & Evaluation (RDT&E)

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Overview

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There are a couple of ways that the OMG members recommend pursuing a U.S. CBDC [Research Development Test & Evaluation \(RDT&E\)](#) effort.

- Either the Federal Reserve directly funds the RDT&E effort
- Partner with a U.S. Federal Department with an existing [Small Business Innovation Research \(SBIR\)](#) / [Small Business Technology Transfer \(STTR\)](#) process in place (see [Table 1](#)) to conduct the research.

Note: Under the SBIR/STTR processes, there can be multiple award teams working to solve the same problem at the same time. The solutions proposed could be merged together later. This gives some competition and helps avoid *group think* on the *best solution*.

Table 1: List of U.S. Federal Eleven Federal Agencies participating in the SBIR program¹⁾

- Small Business Administration
- Department of Agriculture
- Department of Commerce
 - National Institute of Standards and Technology (NIST)
 - National Oceanic and Atmospheric Administration (NOAA)
- 4. Department of Defense[‡]
- 5. Department of Education
- 6. Department of Energy[‡]
- 7. Department of Health and Human Services[‡]
- 8. Department of Homeland Security
- 9. Department of Transportation
- 10. Environmental Protection Agency
- 11. National Aeronautics and Space Administration[‡]
- 12. National Science Foundation[‡]

[‡] - *participate in the STTR Program*

Possible SBIR/STTR Topics

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The following subsections are provided by the OMG members on some possible RDT&E topics and some discussion the Federal Reserve can pursue with a partnering Federal Agency (see [1](#)

- [6.11.1 Consensus Algorithms](#)
- [6.11.2 Artificial Intelligence \(AI\)](#)
- [6.11.3 Ontologies](#)
- [6.11.4 Smart Contracts](#)
- [6.11.5 Complex Data Models](#)
- [6.11.6 Understanding Gas Implications](#)
- [6.11.7 Simulation, Training and Testing Environment](#)
- [6.11.8 Build Reference Implementation \(RI\)](#)

¹⁾

The Department of Interior, [Small Business Innovation Research Programs \(SBIR\)](#), Accessed: 12 May 2022, <https://www.doi.gov/pmb/osdbu/small-business-innovation-research-programs-sbir>

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Last update: 2022/05/12 15:30

