



An Overview of the National Secure Data Service Demonstration (NSDS-D): Where are we now?

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CHIPS and Science Act Requirements



Section 10375 of the 2022 CHIPS and Science Act calls for a 5-year demonstration project to develop, refine, and test models to inform the full implementation of a National Secure Data Service (NSDS).



The NSDS is envisioned as set of shared services and a government-wide data linkage and access infrastructure to support evidence building.



CHIPS and Science calls for consultation with the director of OMB, the National Artificial Intelligence Research Resource (NAIRR), and alignment with the Advisory Committee on Data for Evidence Building (ACDEB) recommendations.



The NSDS Demonstration will be implemented by the National Center for Science and Engineering Statistics (NCSES).

Why an NSDS?

- Novice and non-expert data users have difficulty navigating the complex data ecosystem.
- Data users don't have a place to ask open-ended questions and learn about data options based on their topic of interest.
- Accessing data is burdensome, time-consuming, and often expensive.
- Linking data requires lengthy processes to determine data ownership, requirements, and limitations on use.



Complex data ecosystem



No place to ask open-ended questions



Difficult and expensive to access data



Lengthy processes to link data

Demonstration Activities to Date: Services



**Building Services
for the Nation:
Over 30 Projects
Initiated**

- Tiered Access including Synthetic Data
- Privacy-Preserving Technologies
- Capacity-Building and Equitable Access to Data
- Toolkits and Shared Services
- Data Concierge Services
- Infrastructure Development
- Use of Artificial Intelligence

Demonstration Activities to Date: Partners



**Partnering with
All: Over 30
Presentations to
Stakeholders**

- Coalition for National Science Funding
- Data Foundation
- Health and Human Services Data Governance Board
- Congressional Research Service
- National Science Foundation Artificial Intelligence and Data Governance Group
- Centers for Disease Control and Prevention Privacy-Preserving Record Linkage Community of Practice
- Congressional Staff
- Presidential Council of Advisors on Science and Technology
- White House Office on Science and Technology Subgroup on Privacy Preserving Technologies
- Committee on National Statistics
- Chief Data Officers Council Data Sharing Working Group
- State Chief Data Officer Network

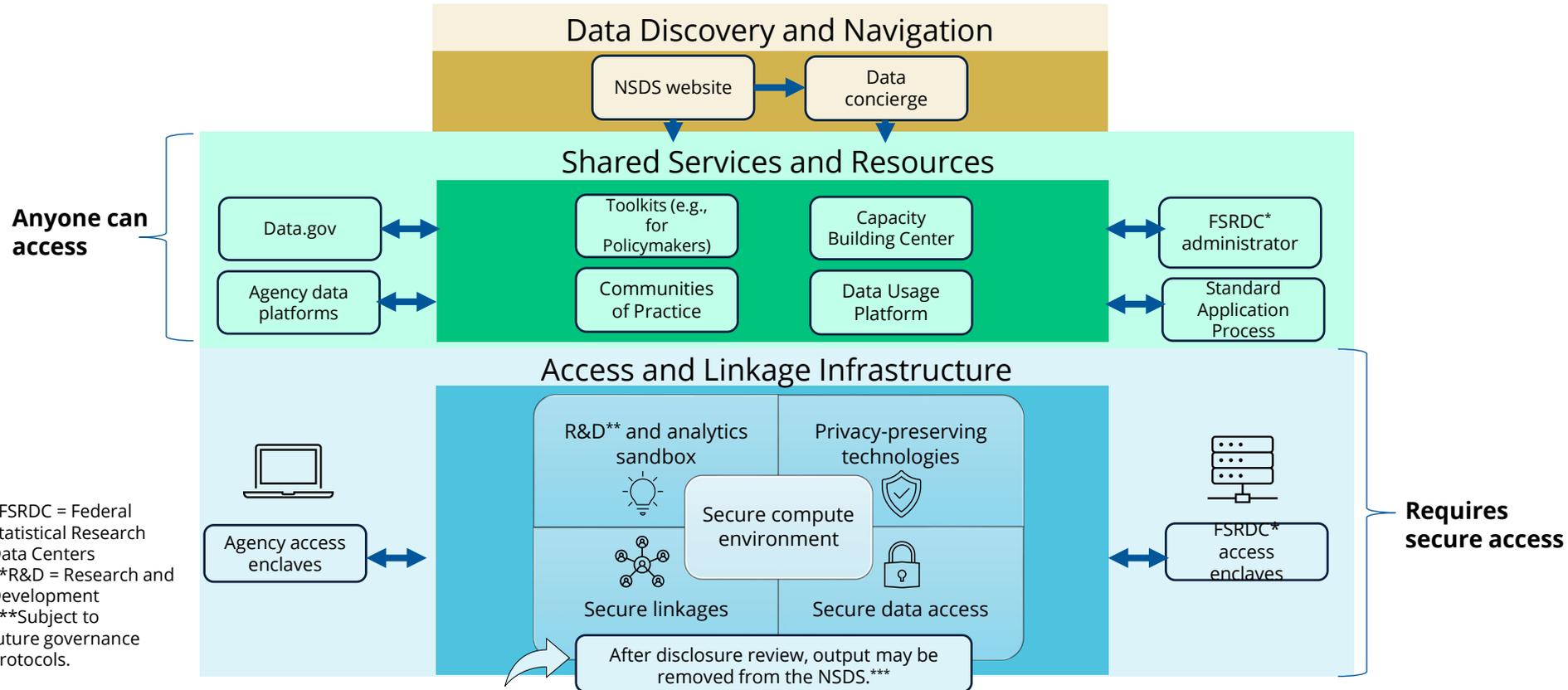
Demonstration Activities to Date: Insights



Collaboration and Expert Insight

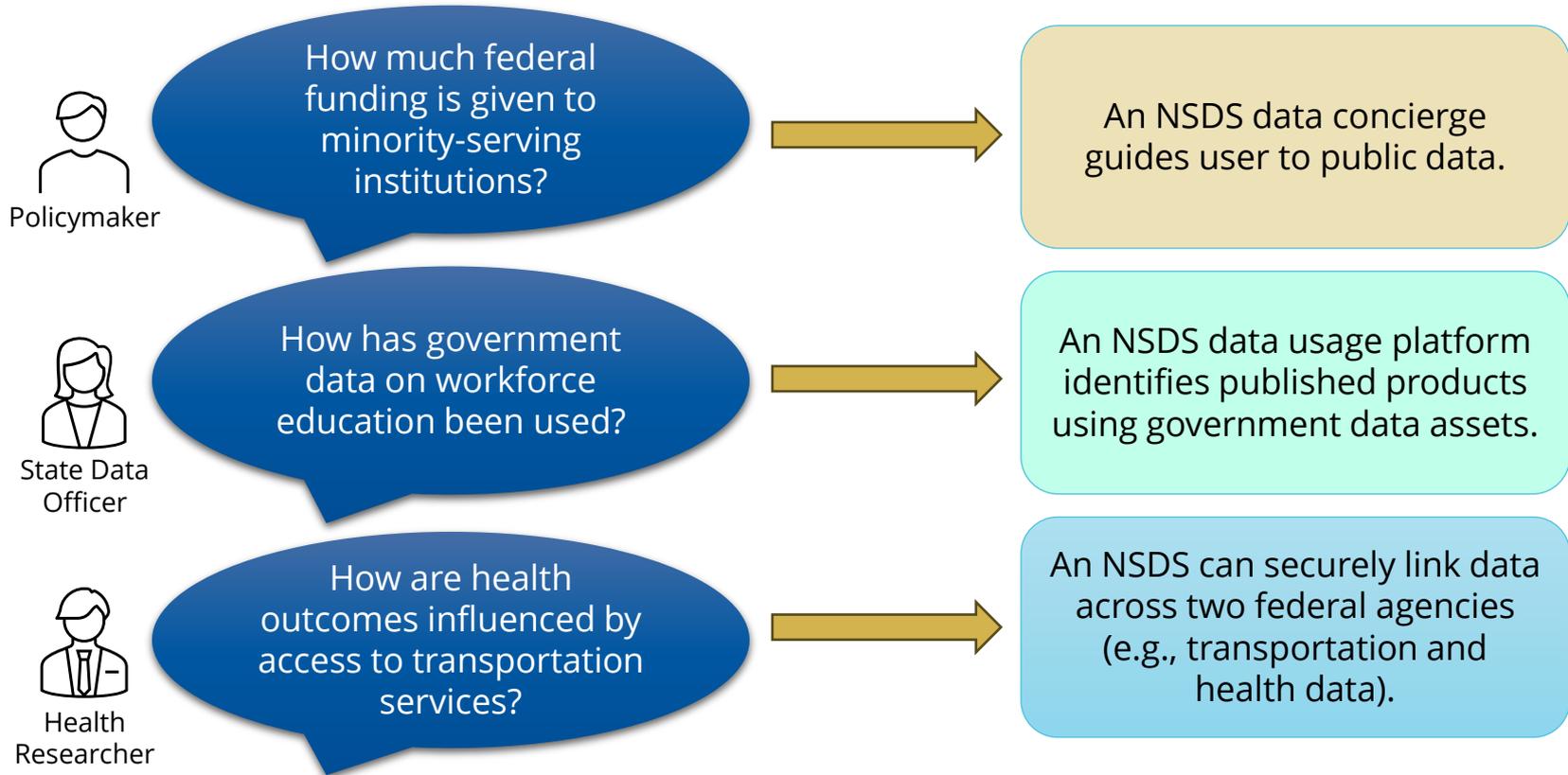
- Collaboration with:
 - Interagency Council on Statistical Policy (ICSP) including ICSP Subcommittee on the National Secure Data Service
 - Office of Management and Budget (OMB)
 - National Artificial Intelligence Research Resource (NAIRR)
- Expert Panel formed to hear a diverse set of perspectives on our vision and plans

What could an NSDS look like?

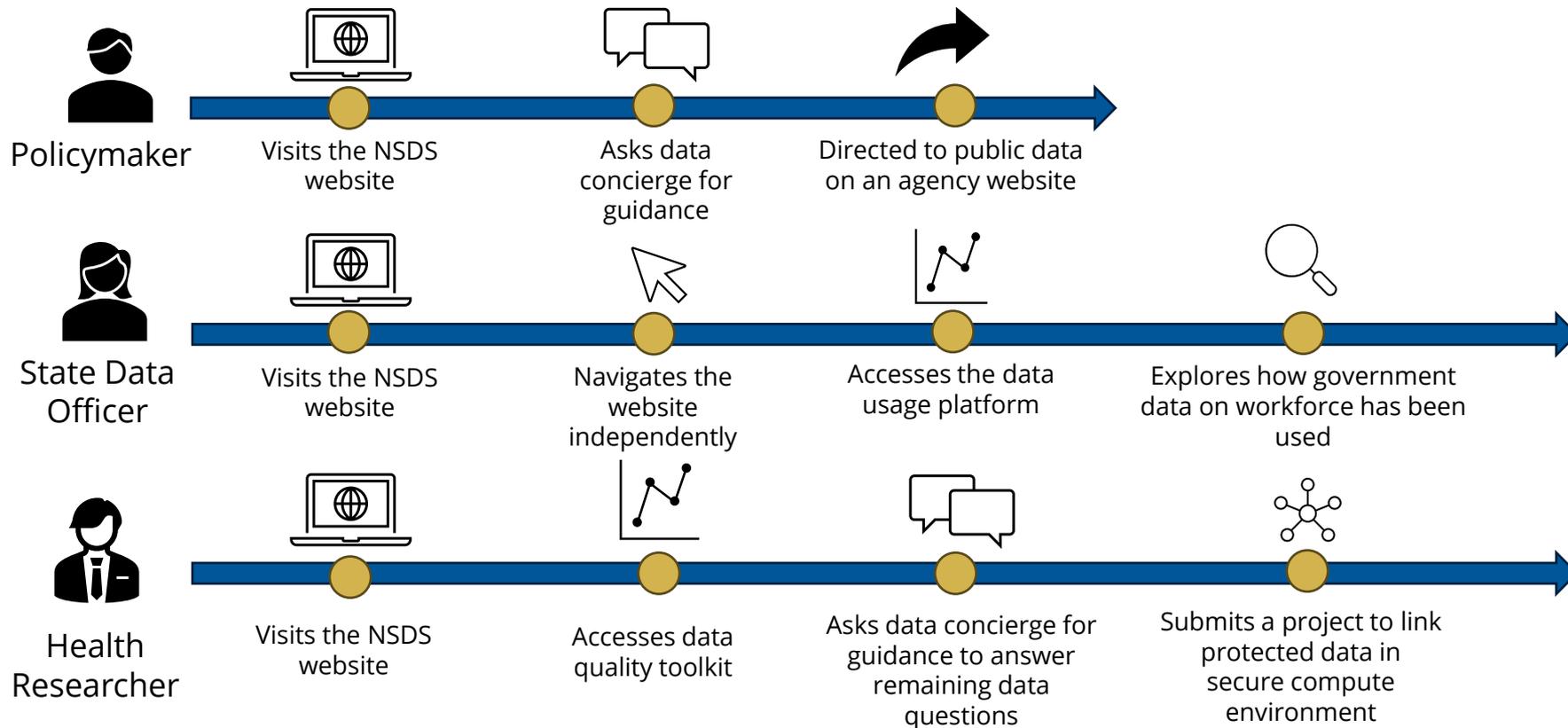


*FSRDC = Federal Statistical Research Data Centers
 **R&D = Research and Development
 ***Subject to future governance protocols.

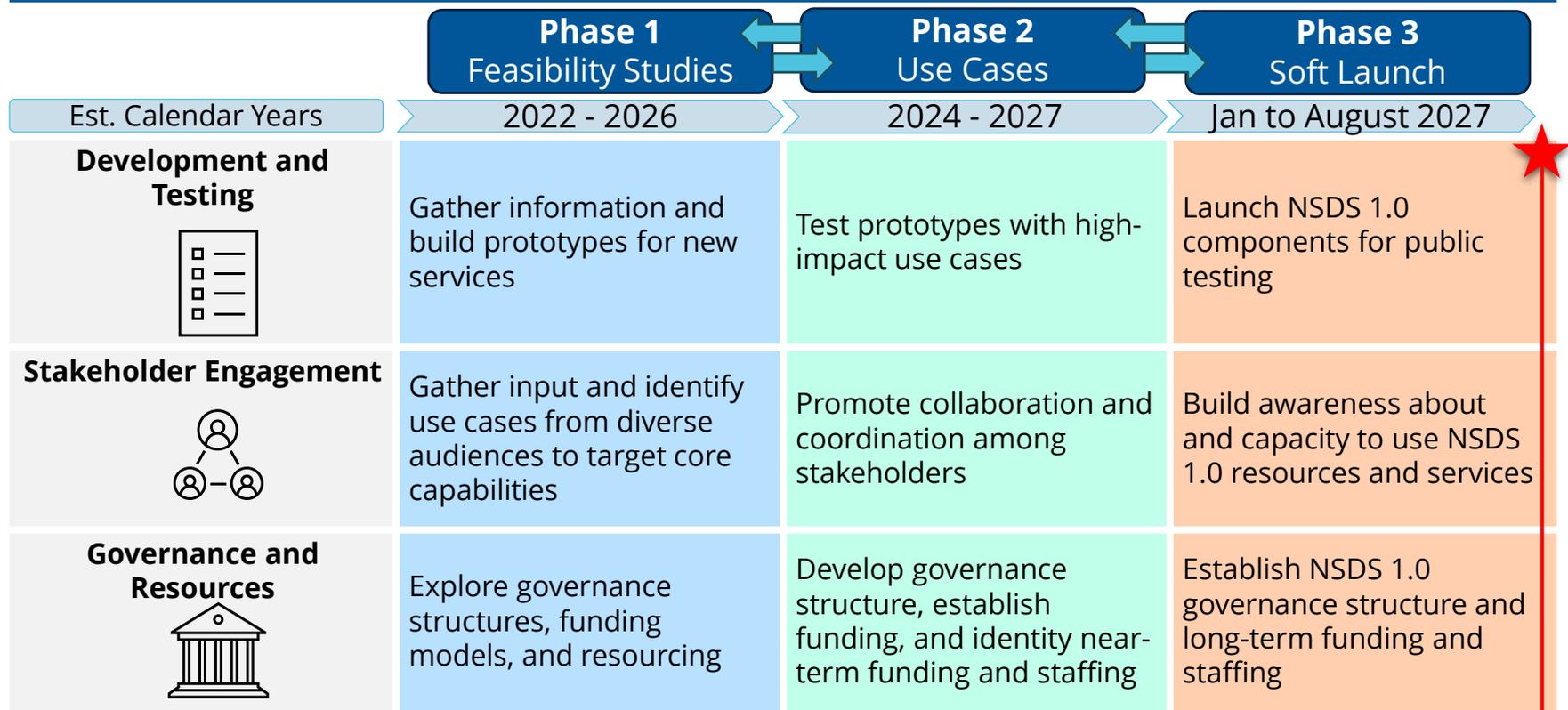
Questions an NSDS can help answer



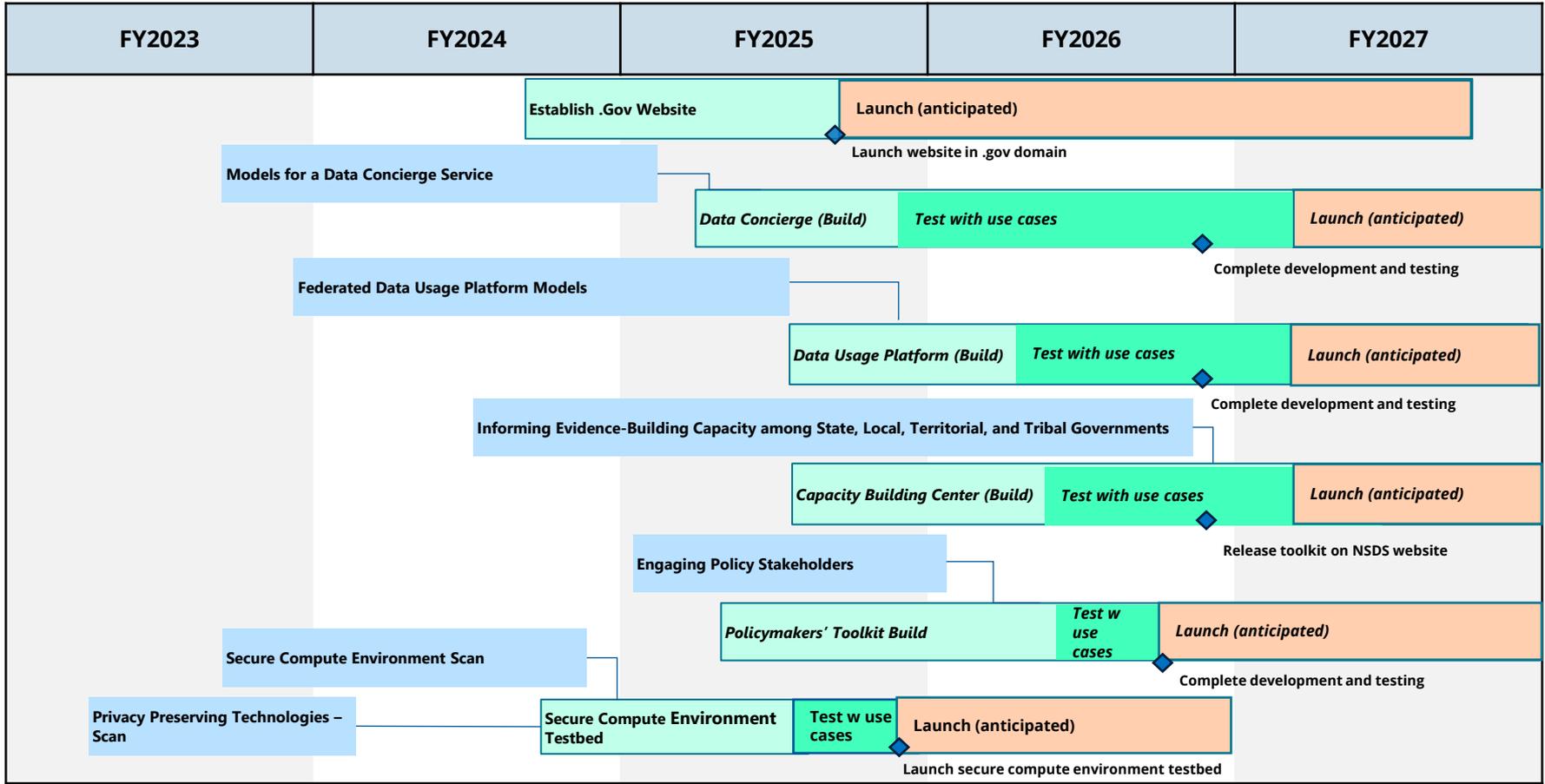
NSDS User Journey Examples



Three Phase Approach



A first version NSDS tentatively available to public users August 2027



*Projects with *italicized* titles have estimated dates. These projects are pending solicitation or award.





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