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IT Strategy Draft Mission Output 1.4.1

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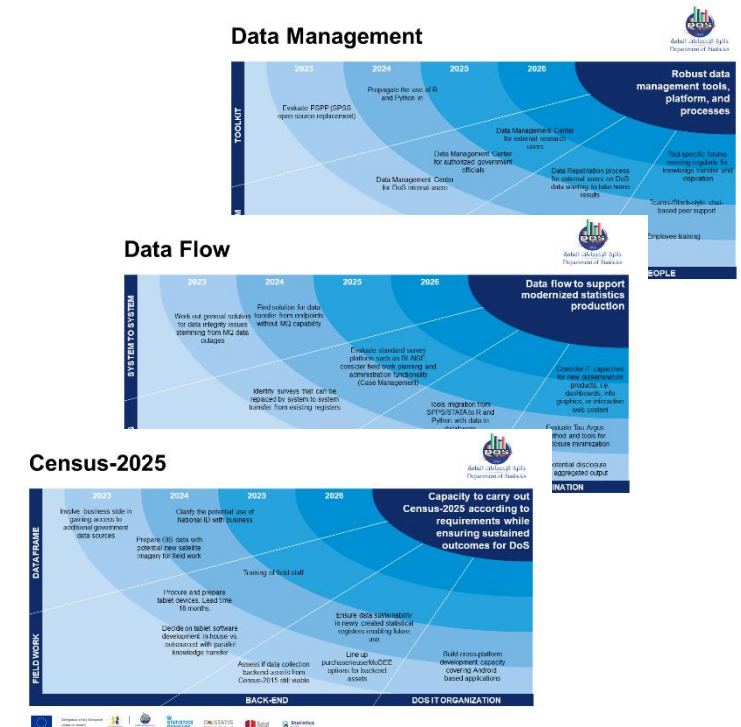
Mission Output

Recommendations

- Joint work by DoS IT staff and Twinning Project STE's
- Current situation as starting point
- Further refinement needed

Transformation Maps

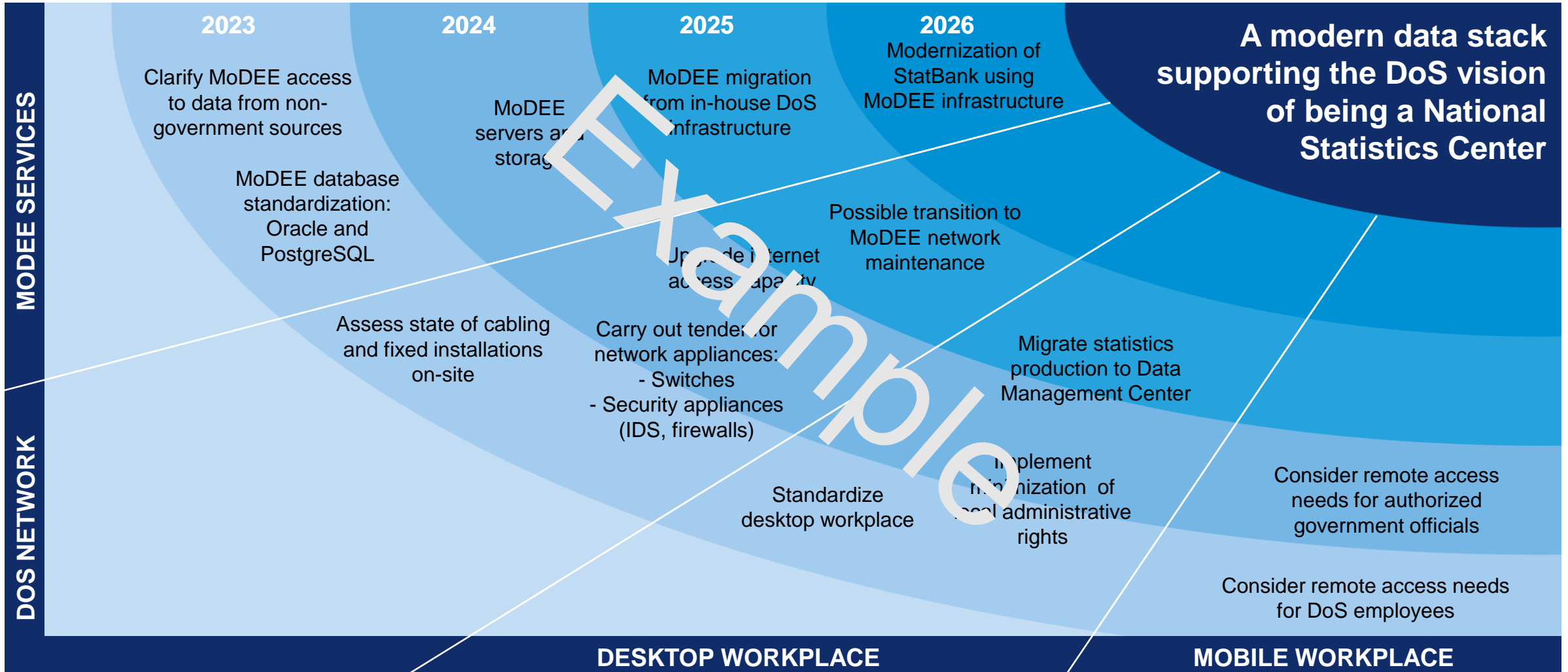
- Timeline 2023-2026
- Six areas identified, four transformation maps populated during this mission
- Dissemination and Information Security assigned to subsequent missions



Infrastructure



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Draft Recommendations





Introduction

- The mission has in collaboration created a draft IT Strategy for DoS. The work has been done with the vision of DoS as a National Statistics Center as the final goal while taking the current situation as its starting point. The IT Strategy describes the steps needed to fulfil the final goal,
- It must be emphasized that the strategy is not a detailed work plan and that the activities in the strategy need further refinement to be detailed enough for actual implementation.



Recommendations

- A major recommendation in the strategy is to modernize statistical production by standardizing and centralizing both data processing and data storage. This should be done by establishing a Data Management Center (DMC) that separates end user desktops from data storage and processing. The DMC is described in more detail later,
- Establishing the necessary IT environment for carrying out the Census-2025 will be a major effort in coming years. It is vital that IT finds the right balance between establishing IT for the Census and carrying out the other important tasks in the daily operation and implementing strategic changes,
- Another important recommendation is that a platform needs to be implemented supporting collaboration and knowledge sharing. This platform should be part of the Data Management Center.

Recommendations

- A common concern across all main areas, including Census-2025, is the transition to use services in MoDEE instead of establishing infrastructure and services inside DoS. In general, DoS should prepare the organization to manage the IT-environment using services inside MoDEE. This includes
 - Getting a good working relationship with the MoDEE organization as a service provider,
 - Testing the different relevant services that MoDEE provide thoroughly before fully migrating to these services,
 - Getting formal agreements with MoDEE for the use of services and service levels delivered.

Recommendations

- DoS should standardize on producing statistics using Python and R as the main tools, also on the business side. The tools should be made available in the DMC. Data should be stored and processed inside databases, not in files,
- Consult DESTATIS or other consortium member states with recent experience in doing a combined census for further advice on the Census-2025 issues,
- Ensure that the data collection platform developed for the Census-2025 will be cross-platform and supplemented by resources for DoS in-house IT development capacity building to warrant sustained outcomes also in other areas of work,
- As the the Census-2025 schedule is rigorously packed and further action depends on approval, care should be taken to ensure imminent senior management assent to the IT Strategy process to enable further DoS elaboration and refinement, followed by implementation and detailed action plans along with sufficient resource allocation.



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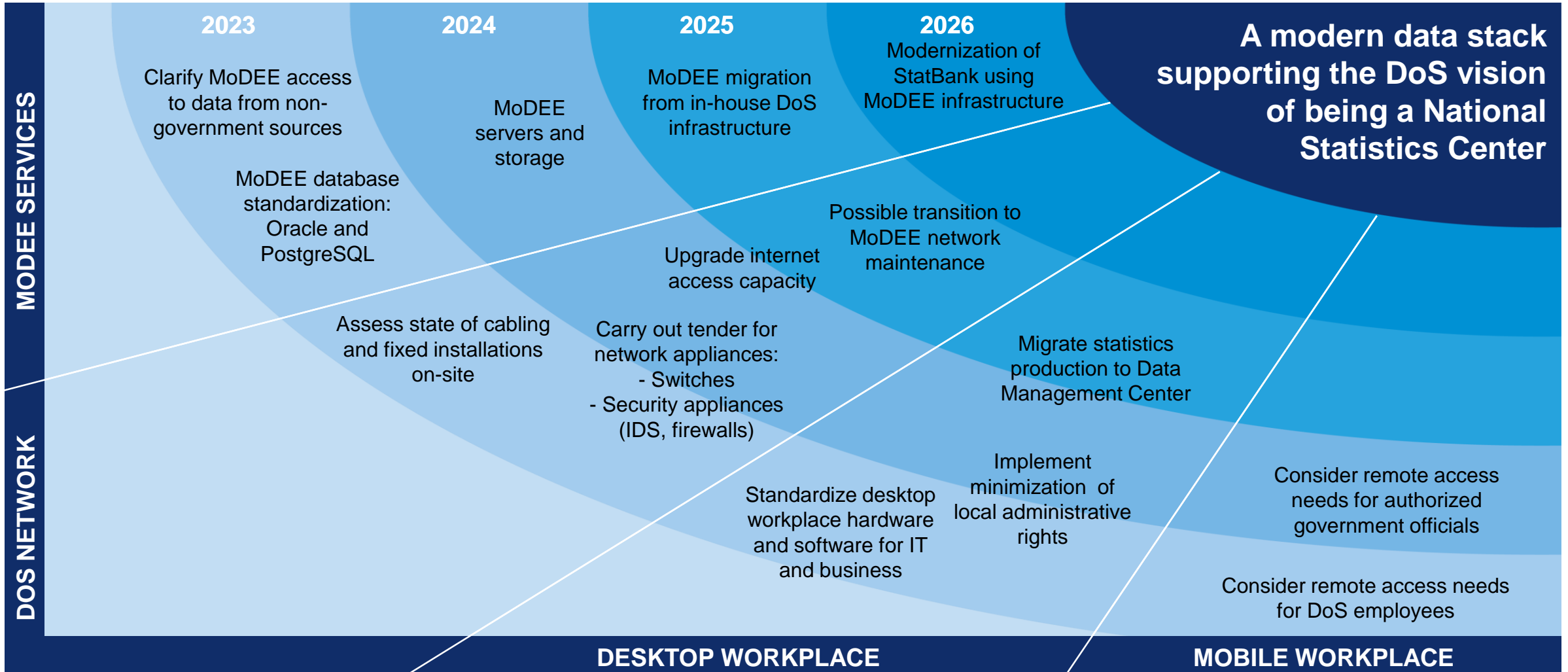
Draft Transformation Maps



Infrastructure



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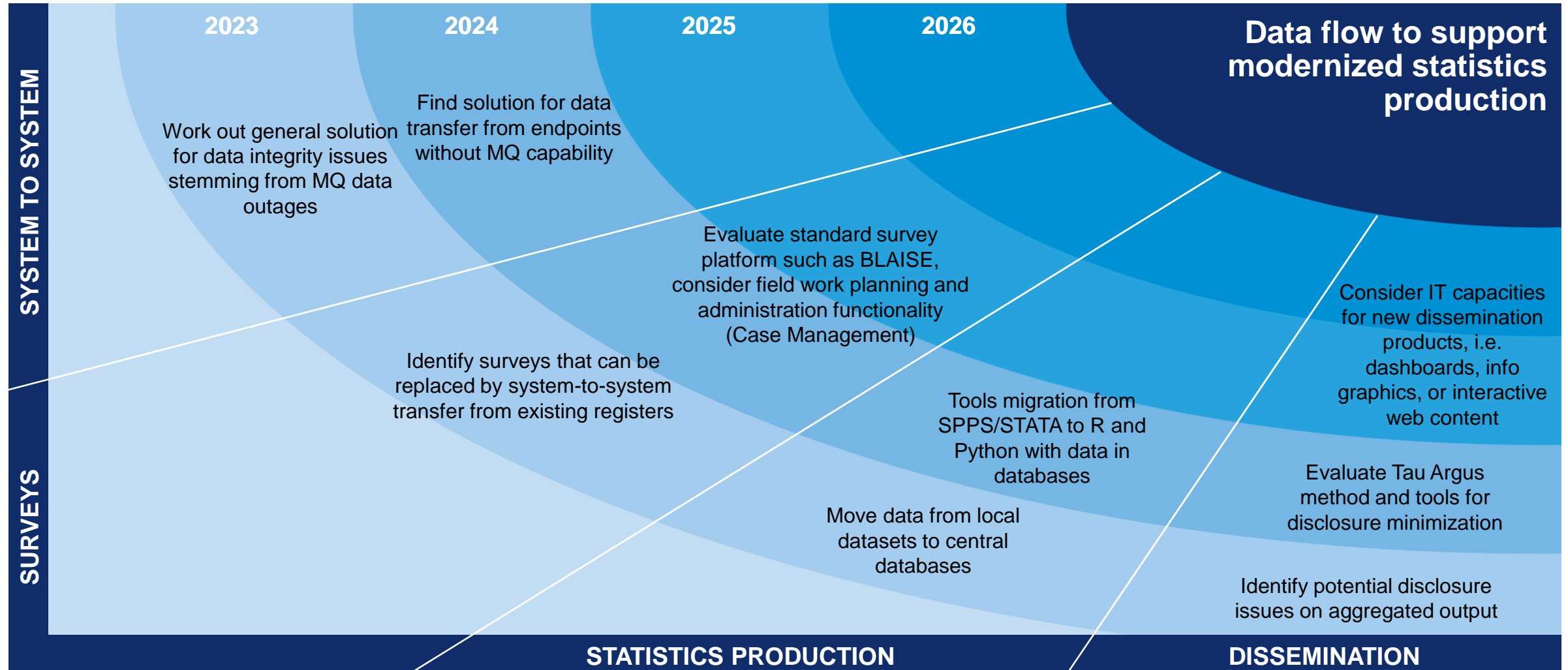
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Data Flow



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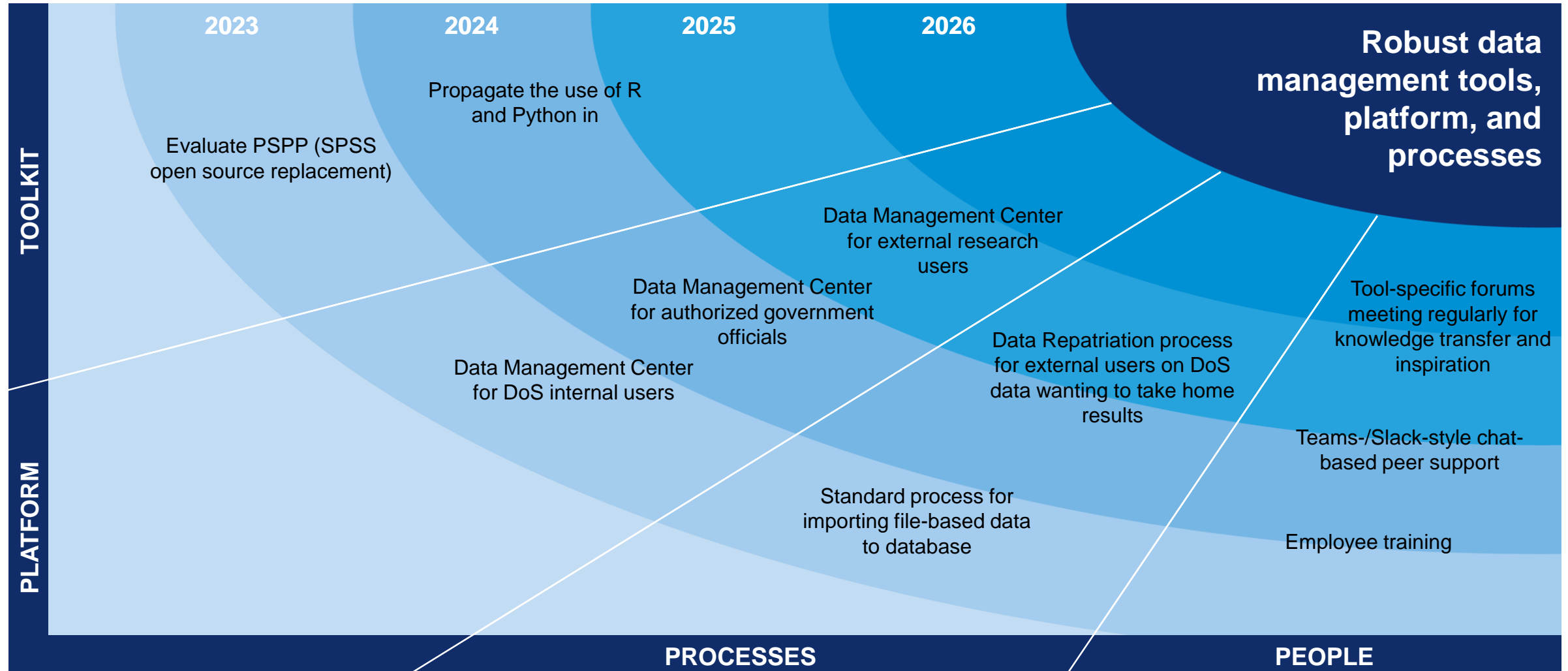
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Data Management



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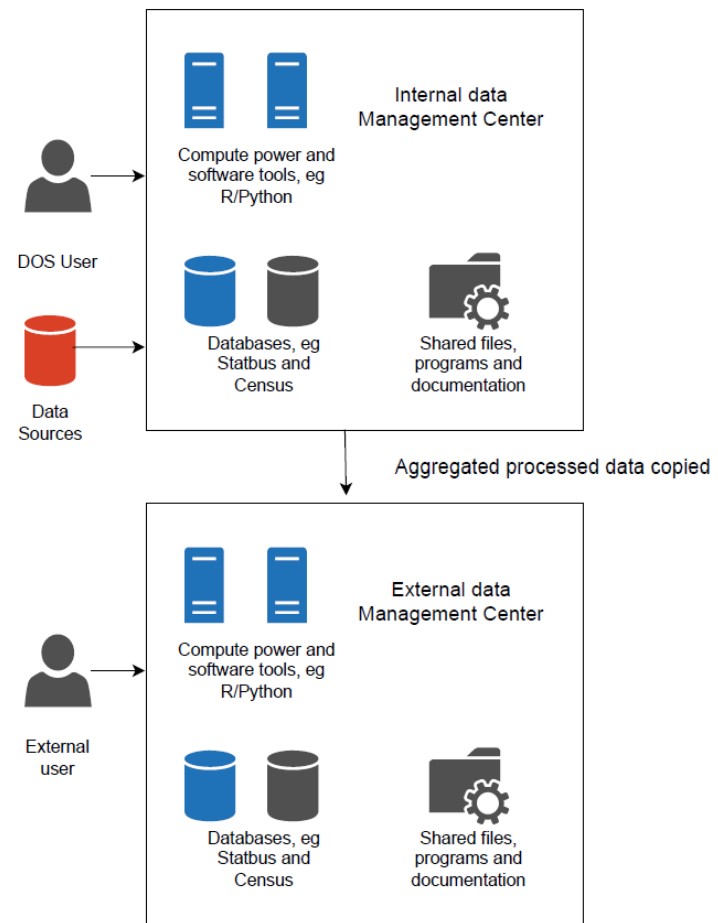


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Data Management Center (DMC)



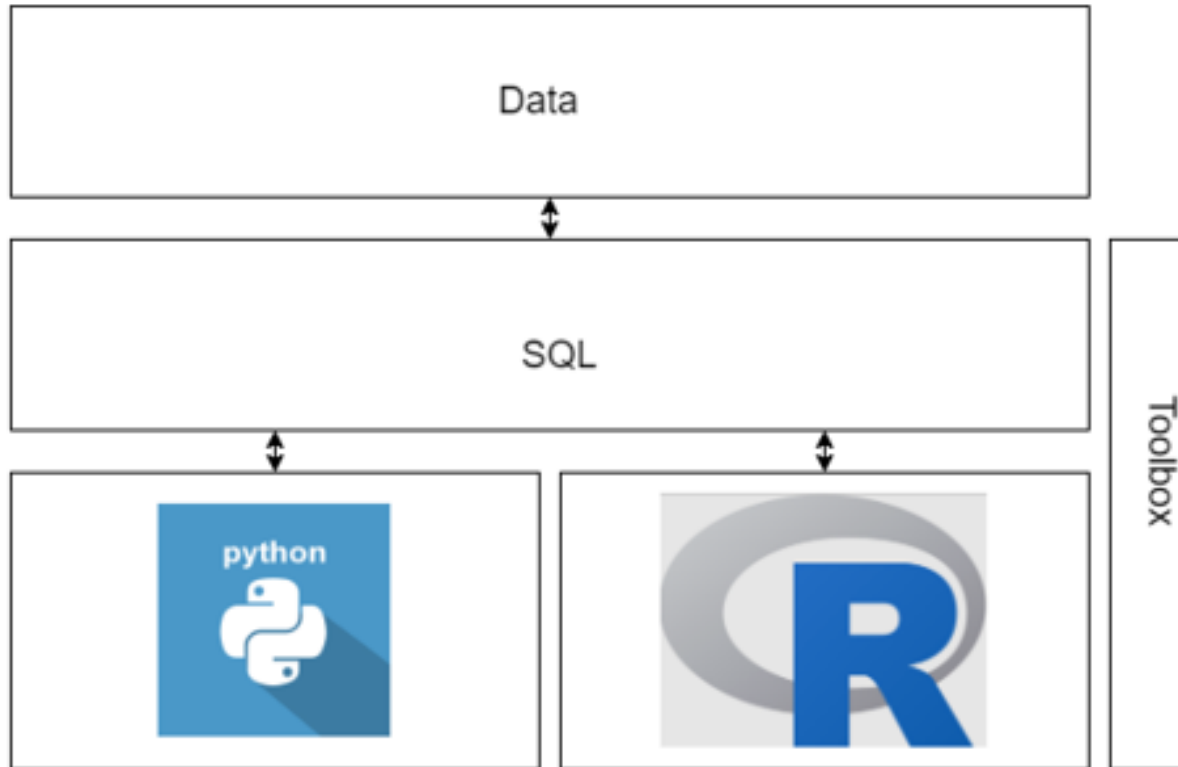
- The DMC centralizes data, statistical tools and computing power
- Security is heightened, because data is not directly accessible from desktop pcs.
- Data cannot be copied from the DMC to desktop pc's, ensuring that statistical production is not dependent on a single desktop
- Statisticians connect to a workplace inside the DMC using remote desktop
- Data Science work can take place alongside statistical production
- Tools standardized on SQL, R, Python
- Enough computing power (CPU, RAM) for all production processes.



Modern toolbox



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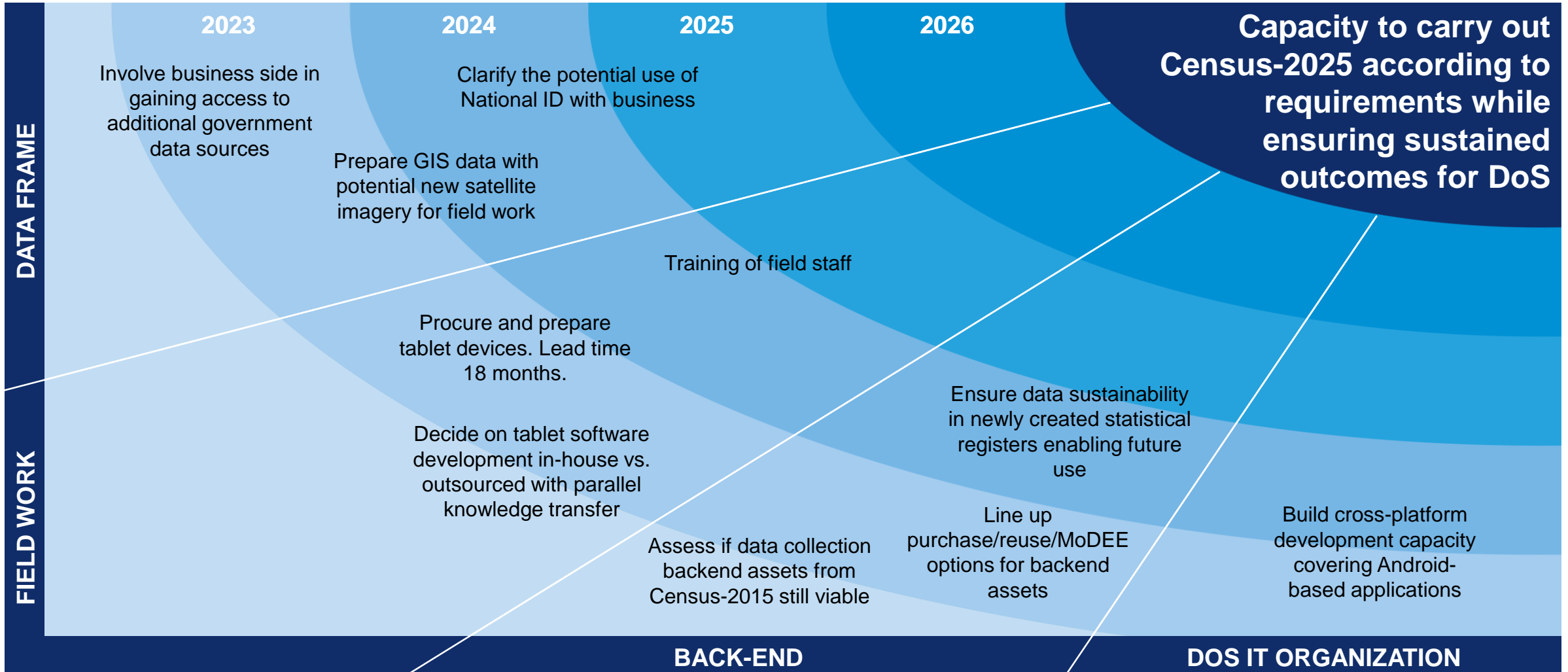
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Census-2025



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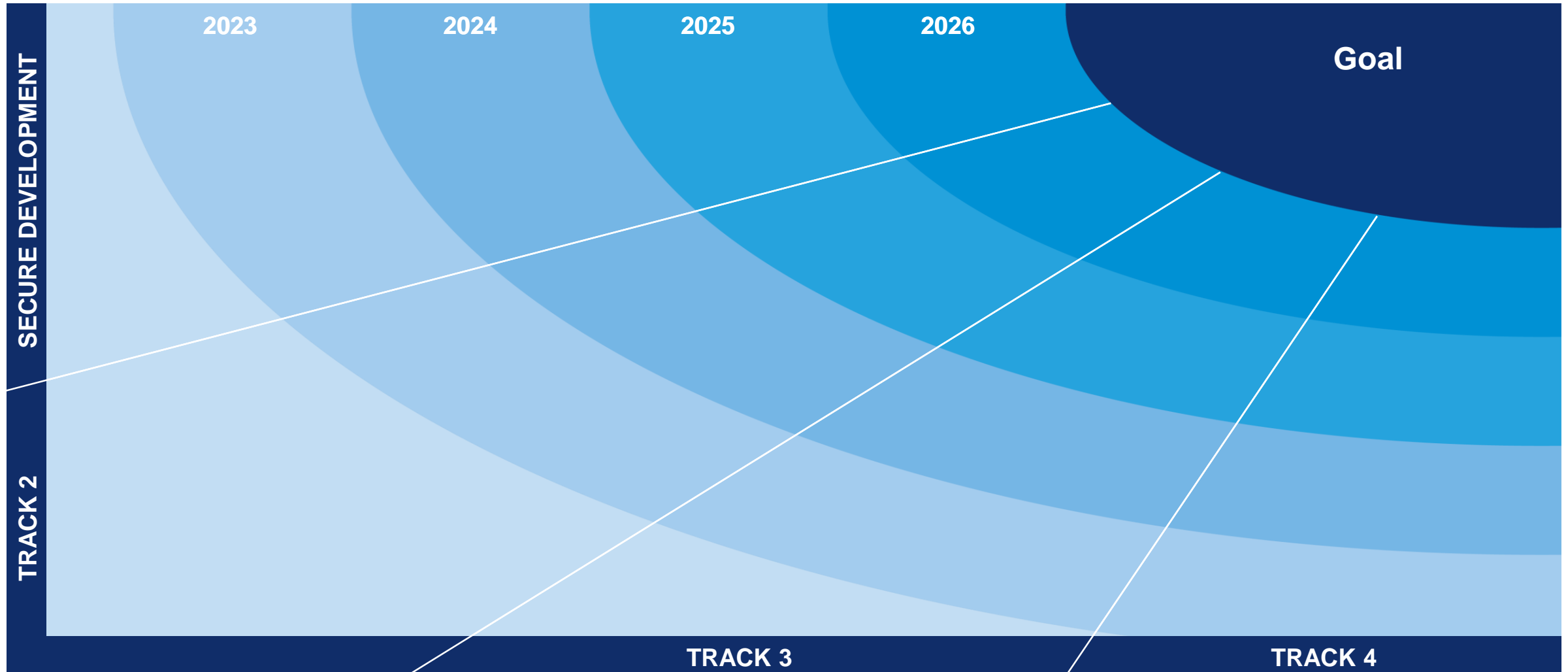
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Information Security



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DI:STATIS
Statistisches Bundesamt

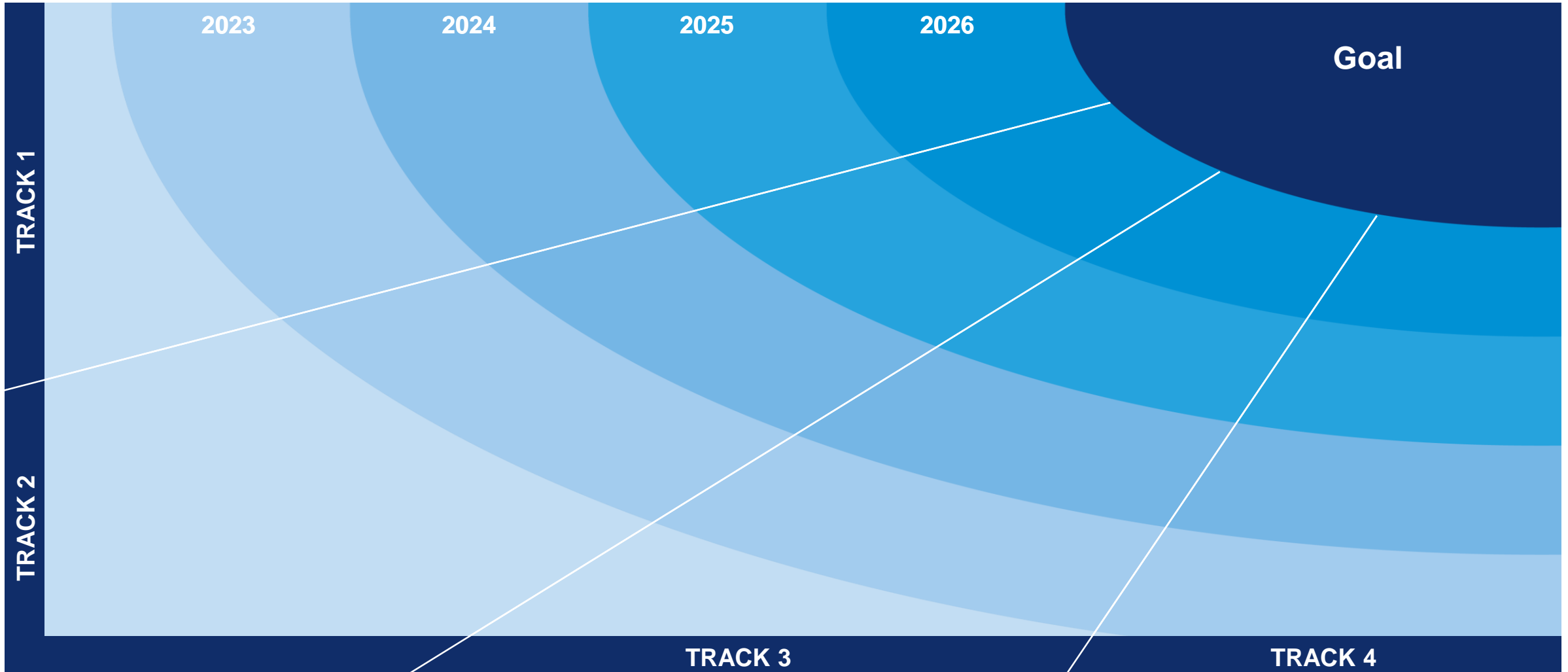


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Dissemination



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