



ENEXIS
PERSONEEL B.V.

**MEMORANDUM OF INFORMATION
MARKET CONSULTATION**

SMART DESIGN SOLUTION

A digital, integrated engineering and work preparation platform that standardizes and accelerates the creation of high-quality low voltage, medium voltage and gas underground network designs, and enables future automation such as revision processing.

MEMORANDUM OF INFORMATION

Nr.	Question	Answer
1	In what way do you expect the envisioned Smart Design Solution to integrate and support different planning horizons, including longterm (20–30 years), midterm (5–10 years), and shortterm operational planning?	<p>The envisioned Smart Design Solution is primarily focused on the design and preparation of projects in the execution phase and is therefore oriented towards short-term planning. Designs created in the Smart Design Solution are intended for short-term realization (0-3 years).</p> <p>To support effective decision-making, the solution should be able to integrate with geospatial layers that represent the current (“as-is”) infrastructure. In addition, midterm and longterm plans (5–10 years and 20–30 years) could be made available within the project area.</p> <p>Including midterm and long-term plans would enable users - supported by the tooling—to make better-informed design choices. While integration with such information is considered important, the management and creation of midterm and longterm planning data are not part of the Smart Design Solution itself.</p>
2	What requirements or capabilities do you see as specifically important for supporting longterm and midterm planning within the Smart Design Solution?	<p>As described in our answer to question 1, the Smart Design Solution focuses on designing and preparing execution-ready projects.</p> <p>A requirement is that project designs consider existing midterm and longterm infrastructure plans. Therefore, the capability to access and visualize these plans (e.g. through integrated map layers or external data sources) is valuable.</p> <p>However, generating and maintaining this planning insight is expected to be handled outside of the Smart Design Solution. The solution should be able to consume and use this information but not be responsible for creating it.</p>

Nr.	Question	Answer
3	<p>What tools or methods does Enexis currently use for longterm and midterm planning, and how would you expect these to interact or integrate with the envisioned Smart Design Solution?</p>	<p>Enexis currently uses a combination of GIS-based systems, asset management tools, and planning solutions to support midterm and longterm network planning. Besides, there are GIS-systems in place to view spatial plans of other parties operating in the same area.</p> <p>The expectation is that the Smart Design Solution will integrate with these kinds of systems through standardized interfaces (e.g. APIs) and data exchanges. In particular, it should be able to consume relevant planning data (such as planned network expansions or reinforcements) and present this as contextual information within the design environment.</p>
4	<p>Can the deadline for submitting replies be extended to 24 April 2026?</p>	<p>In view of our further planning, an extension of the deadline for submitting the answers until April 24, 2026, is unfortunately not possible. However, we can suspend this period until April 10, 2026. The opportunity to ask questions will be extended until April 2, 2026, with us answering the questions as soon as possible immediately upon receipt and no later than April 6, 2026.</p>
5	<p>I have carefully read the market consultation of Enexis for a SMART Design Solution. This is the focus of SDS engineering & work preparation (how & where)</p> <p>In our view, there is something else for this and that relates to Systems Engineering/Requirements Engineering (why & what), because before starting with the solution, it is important to know what the frameworks are:</p> <p>Capture of</p> <ul style="list-style-type: none"> • Policy goals • Design principles and design decisions • Requirements from functionality, performance, safety, environment, laws and regulations <p>Traceability</p> <ul style="list-style-type: none"> • from strategic goals -> design principles -> design decisions <p>Governance</p> <ul style="list-style-type: none"> • change management, 	<p>The Smart Design Solution is deliberately focused on engineering and work preparation activities (the “how” and “where”).</p> <p>We recognize Systems Engineering and Requirements Engineering (the “why” and “what”) as essential prerequisites for realizing the full value of the Smart Design Solution. These aspects—such as policy goals, design principles, requirements management, traceability, and governance—are considered critical boundary conditions.</p> <p>While we are interested in the market’s perspective on how these elements should be organized and how they could effectively interact with the Smart Design Solution, they have intentionally been placed outside the scope of the solution to limit complexity.</p> <p>In other words, the Smart Design Solution should be able to interface with-, and make use of Systems Engineering outputs, but it is not intended to provide</p>

	<ul style="list-style-type: none"> • decision-making, • audits & compliance. <p>My question is whether these matters have been deliberately omitted from the definition of SDS because Enexis already has a solution for this or because it falls outside the scope? Or is there still room for this addition?</p>	the tooling to facilitate Systems Engineering itself.
6	How does Enexis define the assessed "core platform" in SDS? Is it one integrated application, or an architecture with a central information structure?	In this case it is defined as one integrated application.
7	Enexis envisions far reaching integrations with ERP and project management systems. Can Enexis clarify in what way this is in scope for the SDS project?	Please see answer question 19.
8	Does Enexis expect the SDS to be primarily intended to manage design data or to continuously enrich information across the entire chain?	Enexis intends to use SDS as primary engineering platform, encompassing all key design functionalities. In addition, Enexis envisions SDS to be intelligently integrated with related engineering systems, enabling design data to be efficiently reused across those systems.
9	To what extent does Enexis expect SDS to develop into a data-driven platform that supports design with analyses, scenarios, (future) automation and GeoAI?	<p>SDS is intended as a strongly data-driven platform that supports users with analyses, scenario's and design automation. Data will play a centrale role: it will help to quickly generate multiple alternative scenario's, make bottlenecks visible and clarify the impact of design choices. Enexis considers GeoAI as a potential interesting technology for SDS, but is open to other technologies, or combination of technologies that fulfil the same functional goals.</p> <p>At the same time, Enexis envisions a tool wherein users remain fully responsible for the design choices. SDS is explicitly intended as a decision-support system, not as a fully autonomous design tool. Users must therefore always be able to:</p> <ul style="list-style-type: none"> - asses the proposed scenarios and validate them against predetermined standards; - manually adjust generated scenarios or designs; - Develop deviating or alternative solutions where the situation requires it. <p>In summary: SDS will become a strongly data-driven platform that provides</p>

		maximum support with scenarios, analyses and design automation, while the professional judgement and decision making of the experts remain leading.
10	How does Enexis see the role of data quality, validation and governance within SDS?	<p>Enexis envisions data quality, validation and governance as foundational prerequisites for effective functional outcomes, but not as a responsibility that lies exclusively within SDS itself. Because SDS must integrate and consume a variety of geospatial, asset and other sources, through standardized data exchanges, the platform can only deliver reliable outcomes if the underlying data is accurate, consistent and well governed.</p> <p>The formal roles for data ownership and governance reside in the source systems and must comply with Enexis' data governance policies.</p>
11	How does Enexis want to ensure that SDS remains attractive to contractors who also work for other network operators?	By basing SDS on industry standards and commonly used data, and by enabling efficient information exchange, Enexis seeks to ensure that the platform remains appealing and practical for contractors who operate for multiple network operators.
12	"Enexis identifies clear roles: e.g. engineer, technical support engineer, permit coordinator, executor, contractor, and data specialist. Can you provide a breakdown of how many people per role? "	<p>SDS is mainly targeted at engineers and technical support engineers. The expected number of engineer users ranges between 200 and 400, while the number of technical support engineer users is estimated between 150 and 300. For other roles, it is currently not yet defined to what extent they will be granted access to SDS.</p>
13	Which engineering and execution systems does Enexis wish to create a integration now or in the future state? And can you clarify in which way this is possible?	<p>The integration of SDS with other systems will be implemented in stages. At go-live, a connection with Enexis' GIS asset information system is strongly preferred. Integrations with additional internal and external systems and tools—such as SAP and associated project management applications, permit portals, georeferenced platforms, and network calculation tools—are foreseen but may be delivered after SDS has initially been brought into operation.</p> <p>Enexis foresees SDS to integrate with other systems via standardized interfaces (e.g. APIs) and data exchanges. Achieving these integrations will require a close, collaborative partnership between Enexis and the future supplier.</p>

14	How does Enexis see the future-proofing of the SDS?	Enexis sees the future-proofing of SDS primarily in a flexible, data-driven and integration-oriented platform, rather than in embedding all engineering capabilities within a single monolithic system.
15	In the desired situation contractors can use and participate in the development of the SDS systems. To do so we indeed wish to collaborate with partners who are already are working for the larger netbeheerders like Enexis. How can Enexis facilitate this in the next fase?	In the parallel market consultation with our contractors, we are also exploring opportunities to collaborate with contractors. How this will be shaped depends on the outcomes of the market consultations (preferences of contractors and Enexis combined).
16	Can Enexis provide a more detailed insight in their internal and external data sources they wish to include in the SDS?	Please see answer question 19.
17	We read that Enexis wants to share it with Contractors; How does Enexis look at the input of contractors in the tooling?	Going forward, we are setting up a market consultation for contractors. Input of contractors is considered relevant for the tooling because contractors are the ones building the design. To make sure the output of the SDS meets contractors expectations we collect input directly from contractors.
18	Can Enexis provide information about their modular asset blocks?	The idea of modular asset blocks are currently still in the concept phase, Enexis still has to shape these building blocks for the SDS.
19	Can Enexis identify which Engineering, Project Management and ERP systems in particular should be integrated with?	<p>The foreseeable main systems that SDS must have integrations with include:</p> <ul style="list-style-type: none"> - Smallworld GIS: Enexis' primary GIS and asset registration environment for the electricity and gas networks. SDS is expected to consume and, where relevant, exchange geospatial and asset data with Smallworld, so that designs are always based on up-to-date "as-is" network information and can be fed back into the asset base where appropriate. - Georeferencing platform: SDS should be capable of loading map layers managed by Enexis' georeferencing platform. - SAP: used as the core ERP system within Enexis. SDS should be able to interact with SAP for, among other things, project and order data, cost objects, materials, and (where applicable) time and resource information. The aim is to ensure that designs and work preparations in SDS can be smoothly translated into executable and financially controlled projects in SAP.

		<ul style="list-style-type: none"> • Mendix based applications: Enexis uses a variety of Mendix applications to support project management and adjacent processes (such as financial interfaces, material orders, status tracking and certain operational workflows). SDS is expected to connect to these Mendix applications via standardized interfaces (e.g. APIs), so that design data can be used to automatically pre-fill project data, statuses and planning information and users experience a coherent endtoend process from design through to execution. - Network calculation systems: Enexis uses external applications (Vision and GAIA) for network calculations. Integrations with these systems will provide users insight into network capacities under different scenario's.
20	What specific clear advantages will the SDW tool offer over the tooling contractors already use?	<p>Although Enexis cannot oversee all tools currently used by contractors and cannot make statements about the value of these tools, Enexis expects SDS to offer contractors a number of clear advantages compared to the fragmented set of tools contractors typically use today:</p> <ul style="list-style-type: none"> - Acceleration of the engineering process SDS is conceived as a platform that standardizes and accelerates the creation of high-quality network designs and directly supports work preparation and (future) automation such as revision processing. This can avoid manual actions and reduce the need to switch between separate systems. - Access to relevant project data Due to the integrations of SDS with related systems, SDS can provide contractors with relevant project data. - Collaboration opportunities: SDS creates a collaboration platform for contractors and Enexis. It does so by providing a shared, digital environment in which design and work-preparation data can be exchanged in a structured and standardized way, ensuring

		convenient and reliable information transfer.
21	In relation to the described “modern design and drawing capabilities” (including creating and modifying designs, using modular asset building blocks, and generating detailed drawings), could you clarify whether the Smart Design Solution is expected to provide full-fledged design authoring functionality, or whether these capabilities are intended to be realised through integration with existing CAD/GIS design tools currently used within Enexis and its partners?	SDS is expected to provide full-fledged design authoring functionality and is seen as a replacement for existing design programs, including CAD and GIS systems. Therefore, SDS is envisioned as the primary system for users to draw and/or generate detailed designs. However, it should be noted that CAD tooling remains available for exception cases.
22	How does this project ties into the global strategy of Enexis? What is the desired quantified outcome?	Implementing a solution such as SDS helps to make the organisation more efficient, which in turn helps us to build, build, build – exactly what we need to cope with our workload.
23	Vision for Cloud?	This is in place but goes too far at this stage. Should a tender process be launched, we will set out our vision and policy in this area.
24	Policy for Cloud?	See answer question 23
25	Vision for AI?	See answer question 23
26	Policy for AI	See answer question 23
27	What software specifically would they like to integrate with both current & future? How do they foresee this to fit into a current or envisioned architecture?	See answer question 19
28	Does Enexis envision SDS acting as a validation authority for design quality, or will quality assurance remain primarily within the existing organizational roles (engineers, technical support engineers, data specialists)?	See answer question 9

29	How does Enexis define the boundary between SDS and current project management, document management, and asset systems? Which functionalities must remain outside SDS by design?	This partly depends on the solution. But in general: workflow management and documentation management is not primarily part of the SDS. Also, GIS functions are not part of the SDS. For ERP (SAP, e.g. material management, Finance) we see the SDS as an input provider, not as functionality replacement. If input of the SDS should link directly to SAP, or to more flexible Mendix applications, is still to be decided.
30	Does Enexis prefer a modular, best-of-breed SDS ecosystem—combining existing platforms, integration layers, and digital-twin technologies—over a single monolithic application?	For now, there is no preference. We are using this market consultation to explore the opportunities, pros and cons of the various options.