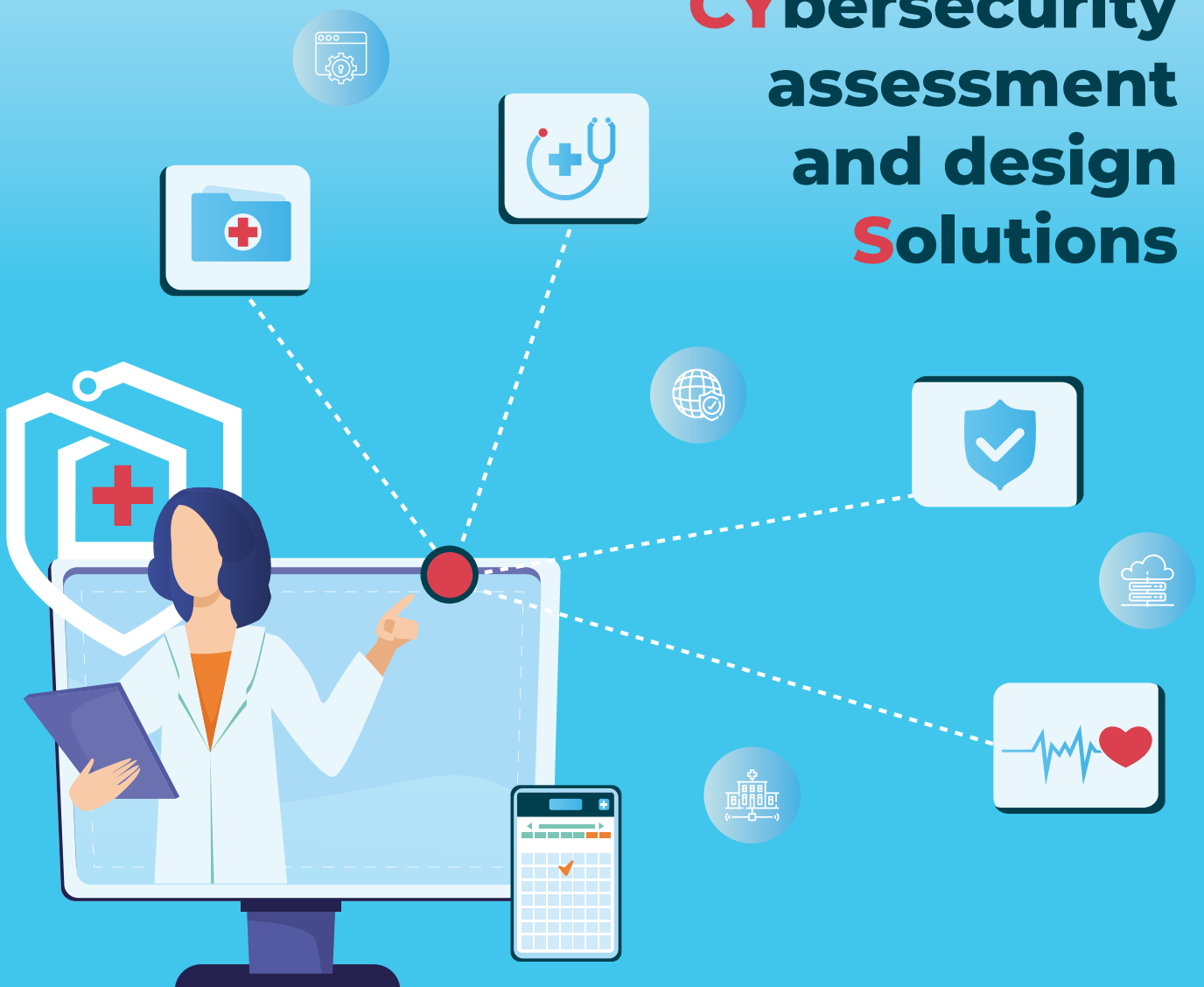




# NEMECYS

NEW MEDICAL CYBERSECURITY AND DESIGN SOLUTIONS

## NEW MEDICAL CYBERSECURITY assessment and design Solutions



### **NEMECYS Toolbox:**

NEMECYS Toolbox: CORAS  
- Model-Driven Risk Assessment

Developed by SINTEF

CORAS is a model-based method for asset-driven, defensive risk assessment, tightly integrated with a graphical, tool-supported modelling language. The method comes with detailed guidelines explaining how to conduct the various stages of a CORAS risk assessment in practice. CORAS is aligned with ISO 27005 and consists of eight steps that comprise every stage from the initial preparations to the derivation of risks and risk treatment recommendations.

To support this process, the CORAS tool facilitates the creation of five types of diagrams, designed to support specific stages in the risk assessment process. These diagrams help users model and reason about assets, threats, threat scenarios, vulnerabilities, unwanted incidents, and risk treatments.



In the context of Connected Medical Devices (CMDs), CORAS can be used to identify assets that need protection, identify and analyse potential threats and vulnerabilities, and determine unwanted incidents that may compromise system security or safety, as well as to identify risk treatments to mitigate risks. CORAS also supports dynamic risk assessment through the identification and use of relevant risk indicators.

In addition, the tool provides support for semi-automated risk estimation and evaluation, enabling the user to dynamically update the final risk value by inputting likelihood values and indicator values identified during the risk assessment process. This calculation is done according to the CORAS calculus. This enhances the ability of the risk assessor to represent evolving system states and assess risks based on changes and observations over time.



### Technical Inquiries for the Tool

If you are interested in learning more about the tool, its capabilities, or technical details, please contact [simeon.tverdal@sintef.no](mailto:simeon.tverdal@sintef.no) | [gencer.erdogan@sintef.no](mailto:gencer.erdogan@sintef.no)



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