

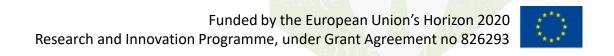
PANACEA PAC WORKSHOP

Joint Value proposition

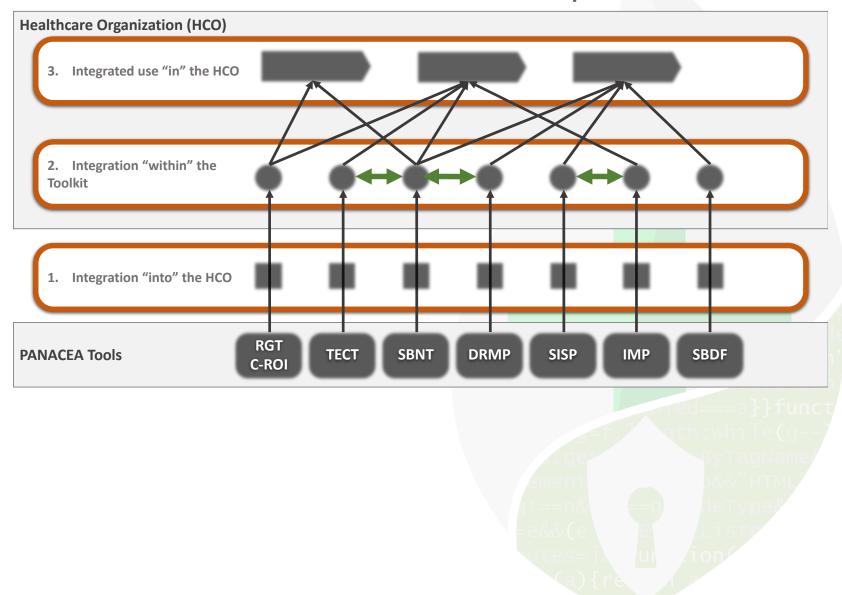
[PANACEA Healthcare Cybersecurity Advisory Services]

4 May 2021

Pasquale Mari FPG

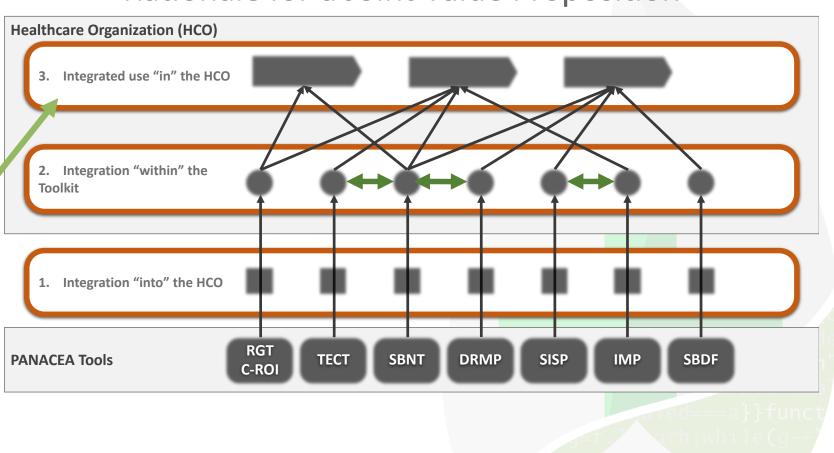






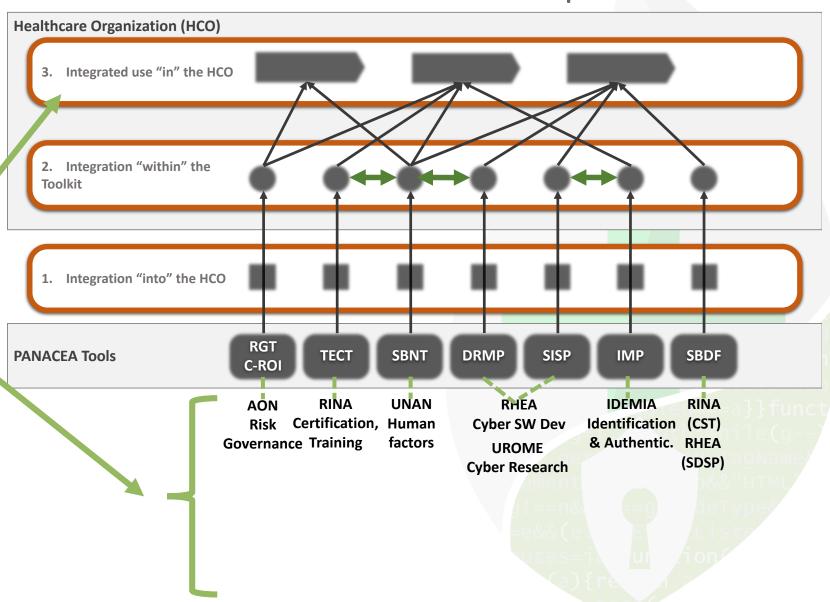


The PANACEA Toolkit may be used in an integrated manner.



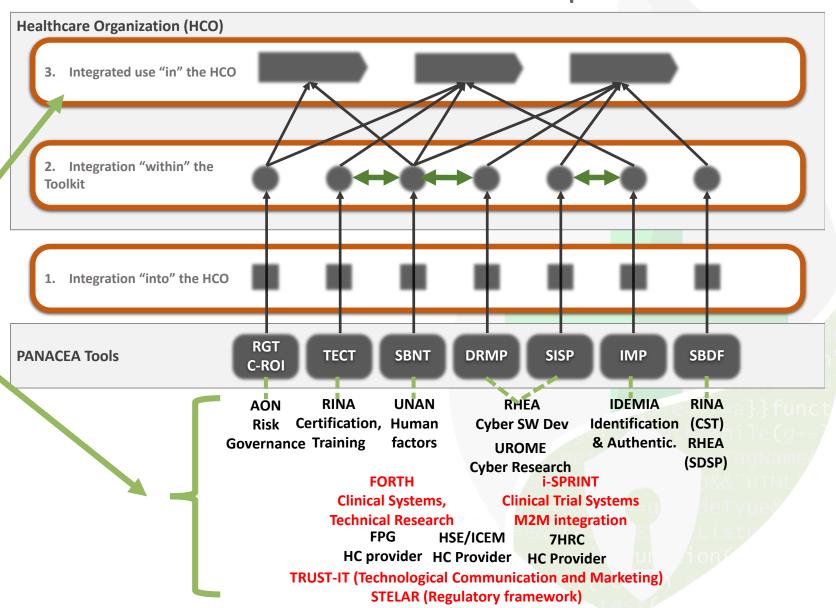


- The PANACEA Toolkit may be used in an integrated manner.
- The PANACEA Consortium includes a collection of multidisciplinary complementary domains of expertise, including first-hand knowledge of healthcare operational and cybersecurity context.





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Business model principles

- Consortium Partners sign a commercial agreement or create a formal entity PHCAS-PANACEA Healthcare Cybersecurity Advisory Services
- ▶ PHCAS has the mission to jointly exploit the expertise and the tools developed during the PANACEA project.
- PHCAS

Provides assessment, certification and advisory services, based on the Partners' multidisciplinary capability, to Healthcare Organizations, in the cybersecurity domain

- PHCAS delivers the services through the Partners, using one or more of the PANACEA Tools
- PHCAS services include the support to the Healthcare Organization in using the PANACEA tools in an integrated manner



Initial Services Portfolio

Service

A. In Depth Assessment

B. Wide spectrum compliance check

C. Risk Management Capacity Building

D. Staff awareness raising

E. Assistance to Integrated PANACEA toolkit use



Service A

Service	Content and delivery modality	Output and Benefit for the Client
A. In Depth Assessment	 The service is a one-off service, articulated in two steps, providing 1) Assessment of the vulnerabilities of the Hospital from the cybersecurity point of view and its cybersecurity readiness, for systems, medical devices and staff. Its scope includes: Maturity of the Governance Processes (RGT) Maturity of Governance Organization (RGT) Quality of procurement process from the cybersecurity point of view (SbDF) Vulnerabilities of network and related human layer (DRMP+SBNT) Staff vulnerability to phishing (FPG expertise) Strength of Identification & Authentication measures (IDEMIA expertise) Cybersecurity of Medical Devices (SbDF) 2) Definition of a prioritized portfolio of measures (also based on DRMP) and an estimate of the investment needed to raise the compliance level (C-ROI). 	Output The client gets a Report including
	PHCAS team works with an internal client team; PHCAS sets-up with the client the emulation environment to apply the DRMP on areas deserving specific in depth analysis; PHCAS team uses PANACEA tools to perform the assessment. Contract agreement may be: One-off, fixed price Fixed price Subscription, including periodical assessment and a yearly amount of person days that the client can use for support in implementing the portfolio	Benefit The benefit for the client is to get a complete and "in depth" picture of its compliance level and vulnerabilities, allowing to plan a consistent and optimal portfolio of interventions



Service B

Service	Content and Delivery modality	Output and Benefit for the Client
B. Wide spectrum compliance check	 The service is a one-off service, articulated in three steps, providing: a check of the compliance of the Hospital vs the more diffused cybersecurity standards and to the certification schemes or indications from EU/National authorities relevant for the client recommendations on how to fill the gaps assistance in implementing the recommendations 	Output The client gets a Report including the recommendations to reach compliance. The client also gets multidisciplinary advice on how to implement the recommendations
	The first step is performed by RINA, based on a Certification scheme developed during the PANACEA project Second and third steps are delivered by a wider team, including the PHCAS partners relevant w.r.t. the result of the first step Contract agreement may be: One-off, fixed price	Benefit The benefit for the client is to be prepared to pass certification (e.g. Joint Commission International) and/or satisfy requests/indications from EU/National bodies (e.g. NIS, Procurement Guidelines for Cybersecurity In Hospitals)



Service C

Service	Content and Delivery modality	Output and Benefit for the Client
C. Risk Management Capacity Building	 The service is a one-off service, articulated in four steps, providing: Assessment of current capacity, through assessment of Maturity of the Governance Processes (RGT) Maturity of Governance Organization (RGT) Skill assessment (based on results from other EU projects participated by PANACEA Partners) Recommendations on how to fill the gaps Assistance in implementing the recommendations in terms of (if applicable) Governance Organization model upgrade (RGT) Adoption of relevant PANACEA tools (C-ROI, DRMP, SbDF, SBNT, TECT) based on the Implementation Guidelines developed during the PANACEA project Staff competency building/strengthening (based on results from other EU projects participated by PANACEA Partners) Assistance until the capability is sufficiently acquired. The first step is performed mainly by AON (based on RGT) and RHEA Remaining steps are delivered by a wider team, including the PHCAS partners relevant wrt the result of the first step Contract agreement may be: One-off, fixed price 	Output The client gets a Report including the recommendations to set-up/upgrade the capability. The client also gets multidisciplinary advice on how to implement the recommendations Benefit The benefit for the client is to rapidly set-up a cybersecurity management capability



Service D

Service	Content and Delivery modality	Output and Benefit or the Client
D. Staff awareness raising	 The service is a one-off service, articulated in four steps, providing: Assessment of current awareness through Identification of weakness topics and target population (SBNT) Staff vulnerability to phishing (FPG expertise) Design/Customization of applicable solutions (SBNT, TECT, IMP H2M, SISP) Implementation of designed solutions Result evaluation (TECT) and recommendation on how to stabilize or improve the results obtained. The first step is performed mainly by UNAN with the support of FPG Remaining steps are delivered by a wider team, including the PHCAS partners relevant wrt the result of the first step. The clients sets-up a team (at least CISO+HR) to drive the service Contract agreement may be: One-off, fixed price One-off, fixed price+ success fee (related to the awareness improvement reached, as assessed by the evaluation step) 	Output The client gets a Report on the current status of cybersecurity awareness The client also gets design and implementation of measures Benefit The benefit for the client is to rapidly improve staff awareness



Service E

Service	Content and Delivery modality	Output and Benefit or the Client
E. Assistance to Integrated PANACEA toolkit use	In case the client has already adopted all (or most of) Panacea tools, this service consists assisting the client in their combined use. Examples of integrated use cases include: To cope with frequent selection and deployment of new technology To limit human errors due to multi-use and time pressure To ensure secure Smart-working To decide cybersecurity investments To contrast stream of fake pandemic related messages To ensure secure rapid on-boarding of new staff in clinical activities To ensure secure Telemedicine To ensure secure upgrade to sanitary purposes of non-sanitary host structures In general, the service is delivered by a team involving many PHCAS partners The clients sets-up a team to drive the service. Contract agreement may be: One-off, fixed price, every time the intervention is required Fixed price Subscription, including a yearly amount of person days that the client can use to get the services when needed	Output The client gets an end-to-end service to cope with recurrent problems Benefit Benefit for the client is to do best use of PANACEA toolkit to cope a variety of situations requiring a multidimensional approach