



Pericles

Policy recommendation and improved communication tools for law enforcement and security agencies preventing violent radicalization

D4.3 MAVAST Multi Agency Vulnerability Assessment Tool

Background and Development

Authors: Dianne van Hemert, Tony van Vliet, Bob van der Vecht, Jacomien de Jong, Rinze Bruining, Ward Venrooij, Bas Keijser, Helma van den Berg, & Mirjam Huis in 't Veld

R e s u l t R e p o r t



Pericles

Policy recommendation and improved communication tools for law enforcement and security agencies preventing violent radicalization

D4.3 MAVAST Multi Agency Vulnerability Assessment Support Tool (MAVAST)

Background and Development

*The dissemination level of this deliverable is
EU restricted*

Abstract:

This deliverable, D4.3 MAVAST; Multi Agency Vulnerability Assessment Support Tool provides a base description of the MAVAST tool - status October 2019. The deliverable provides an overview of the current status of MAVAST and the approach in developing the tool. In addition to the current status of MAVAST, the deliverable gives a.o. a brief insight into the challenges in developing the tool and its design requirements.

The deliverable starts in Chapter 1 with the purpose of developing MAVAST and an outline of the report. Chapter 2 provides insight into relevant concepts such as vulnerability, radicalisation and several assessment methods. Chapter 3 describes the main (design) principles of MAVAST. Chapter 4 describes the development of the MAVAST tool, its content, its underlying model, the process of using MAVAST and its interface. The deliverable concludes with Chapter 5 describing the key features and way forward for the tool.

Authors:

Name: Dianne van Hemert	Institute: TNO
Name: Tony van Vliet	Institute: TNO
Name: Bob van der Vecht	Institute: TNO
Name: Jacomien de Jong	Institute: TNO
Name: Rinze Bruining	Institute: TNO
Name: Ward Venrooij	Institute: TNO
Name: Bas Keijser	Institute: TNO
Name: Helma van den Berg	Institute: TNO
Name: Mirjam Huis in 't Veld	Institute: TNO



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 740773

Document Evolution:

Version	Date	Note of Modification
V0.1	28 June 2019	Concept version of the report
V0.5	20 October 2019	Major update
V1.0	30 October 2019	Revised after consortium review

TABLE OF CONTENTS

1. Introduction	6
1.1 Setting the stage	6
1.2 The MAVAST	6
1.3 Outline report.....	6
2. State of the art of vulnerability assessment of violent radicalisation	8
2.1 Scoping and major concepts	8
2.2 Process of vulnerability assessment	9
2.2.1 Detection	10
2.2.2 Appraisal	10
2.2.3 Action	10
2.3 Ethical & legal, societal & cultural, and operational dilemmas	11
2.4 Highlights of current practice.....	12
2.4.1 Detection.....	12
2.4.2 Appraisal	12
2.4.3 Action	12
3. Principles of MAVAST	13
3.1 Introduction	13
3.2 Process.....	13
3.2.1 MAVAST process	13
3.2.2 How does MAVAST fit in the operational process?....	14
3.3 Addressing dilemmas.....	15
3.4 Scientific grounding.....	16
3.4.1 Input from existing tools.....	16
3.4.2 Bayesian model.....	16
3.4.3 Perspectives.....	16
3.4.4 Iterations with end users.....	17
4. Development of The MAVAST	18
4.1 Indicators of vulnerability.....	18
4.1.1 Collection of indicators, factors, and perspectives	18
4.1.2 Clustering of indicators	20
4.2 Bayesian probability model	20
4.2.1 Expert elicitation	21
4.2.2 Factor strength	21
4.2.3 Factor contribution.....	22
4.2.4 Perspective evaluation	22
4.3 Process support interface	23
4.3.1 Workflow	32

5. Utility of MAVAST.....	35
5.1 Key features.....	35
5.1.1 Detection.....	35
5.1.2 Appraisal.....	35
5.1.3 Action.....	36
5.2 Way forward.....	36
5.2.1 Ownership, exploitation & dissemination.....	36
5.2.2 Validation.....	36
List of Figures.....	38
List of Tables.....	39
References.....	40