Mobile App Security Issues in the Automotive Sector
and Possible Improvements

SHIELD™

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~ SHORT INTRODUCTION

- Tom Lysemose Hansen, CTO, Promon

- Norway Research Background from University of Oslo and SINTEF

- Promon – Provides Mobile App Hardening and Self Protection technologies

~ CONTENT OVERVIEW

- How a Tesla was stolen by hacking the app

- Why is App Security important?

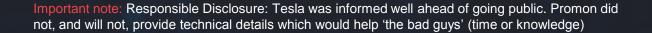- What can we learn from other industries?

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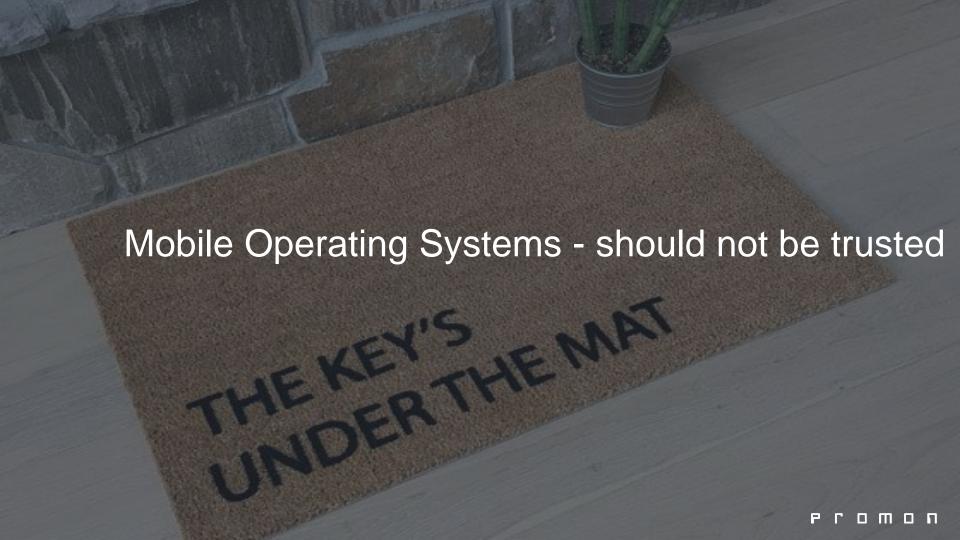# ~ WHY IS APP SECURITY IMPORTANT?

- Mobile Malware: is increasing

- Mobile Operating Systems: Can not be trusted

- Business: Brand damage, customer and end-user trust

- Hazard: IP, trade secret, and data theft

From hardware

To software

p r o m o n

HOW A TESLA WAS STOLEN BY HACKING THE APP

Important note: Responsible Disclosure: Tesla was informed well ahead of going public. Promon did not, and will not, provide technical details which would help 'the bad guys' (time or knowledge)

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Mobile Operating Systems - should not be trusted

THE KEY'S UNDER THE MAT

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WHAT CAN WE LEARN FROM OTHER INDUSTRIES?

The financial industry faces a number of mobile app security requirements (**PSD2 directive)**

Payment Services Directive (PSD2)

- Strong Authentication

- Adopt security measures to mitigate risks resulting from the mobile device being compromised

- Security controls to **detect**, **prevent** and **respond** to the alteration of mobile apps

Source: Article 9, PSD2 (Payment Service Directive)

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~ **THANK YOU** ~

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