



VIII TALLIS



Rakshith Amarnath R&D Project Lead

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Robert Bosch Corporate Research Yasemin Acar Research Group Leader Max Planck Institute for Security and Privacy

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Victor Marginean Global Head of Cybersecurity & Privacy Business Unit HMI Continental

Dr. Thomas Wollinger CEO

Escrypt







code intelligence

FuzzCon Europe 2020

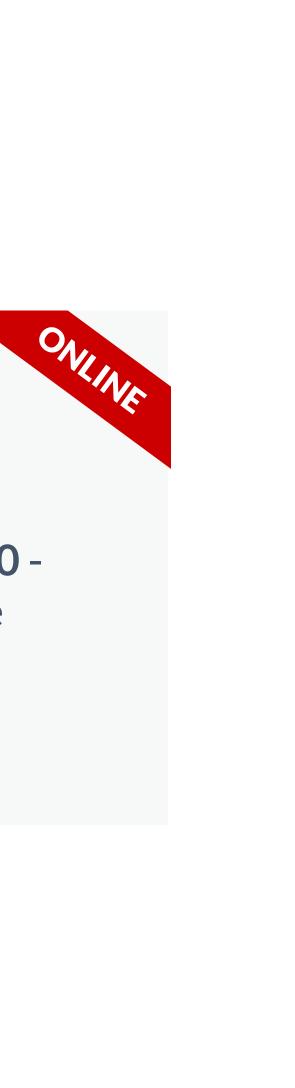




2020

FuzzCon Europe 2020 -Fuzz Your Software

~ 700 participants





Automotive



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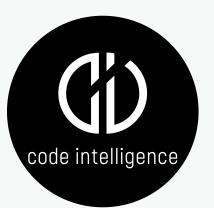






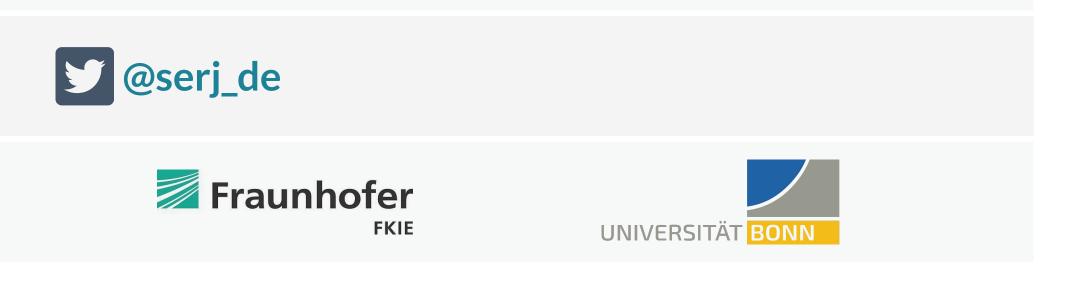
Who am I?

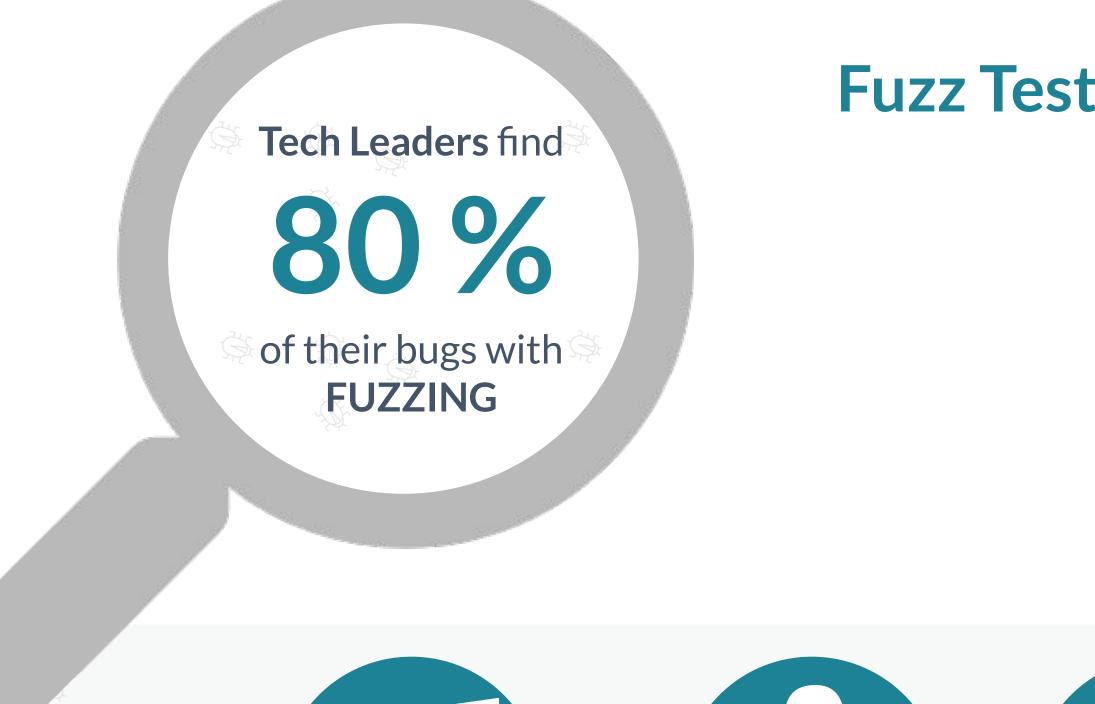


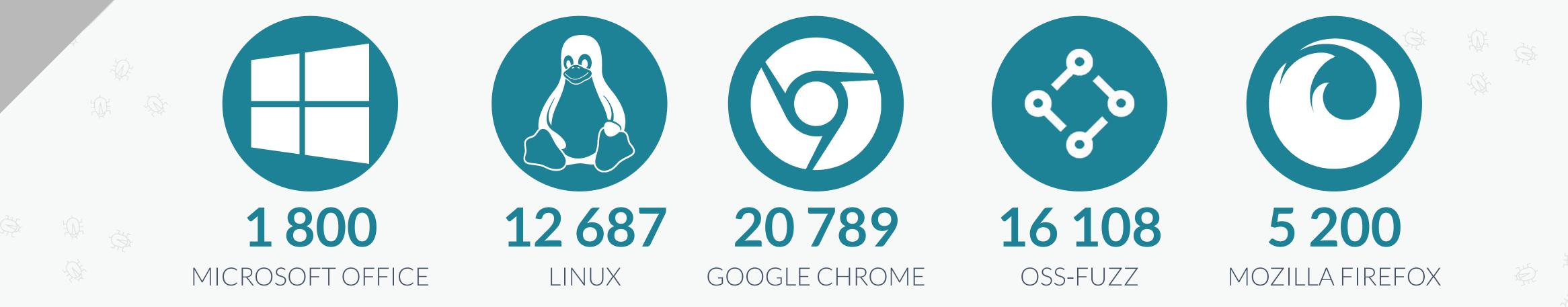


Background

- Usable Security & Privacy
- Software Development in Automotive
- Training for secure development to developers







Fuzz Testing on the Rise

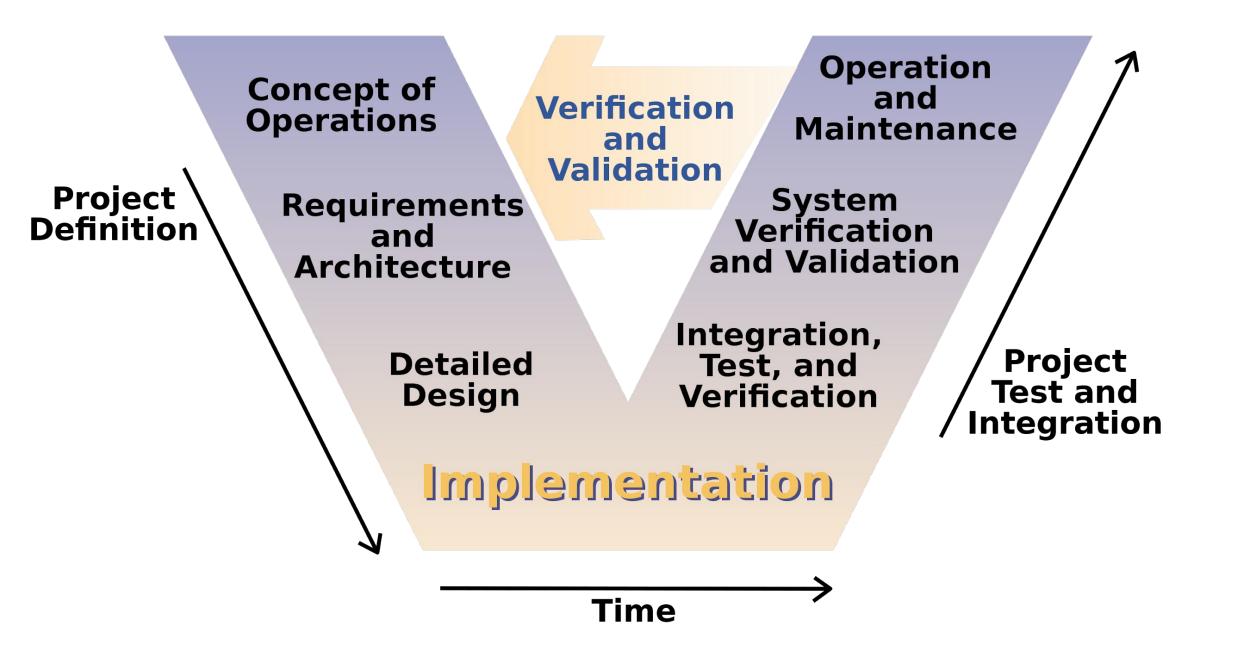




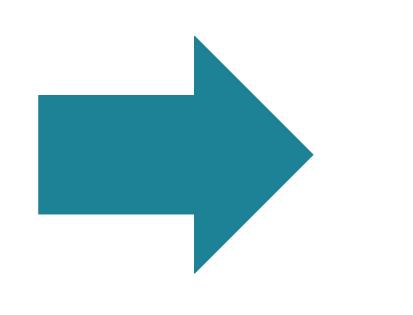


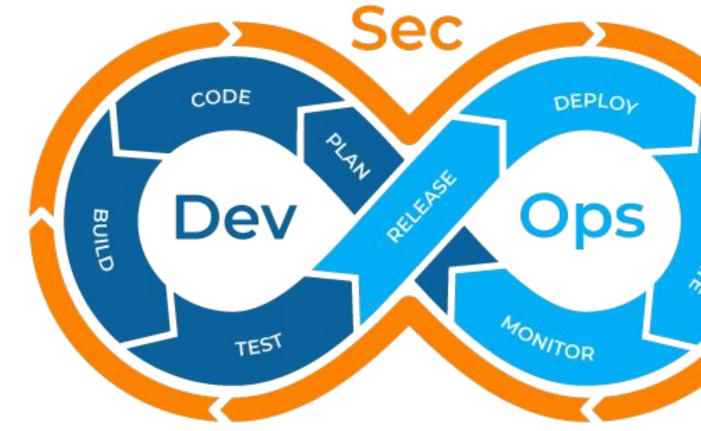
Testing Processes

V-Model



Dev(Sec)Ops







Current State of DevSecOps in Automotive

Developer Acceptance

- Static analysis widely adopted in the processes • Fuzzing + DAST unused / unknown by developers Oev + Sec + Ops • Pentesters + Q&A use blackbox fuzzing (ISO 21343) = • Numerous regulations

Process / Tooling

- OSS tools often incompatible to industry use cases
- AutoSAR, Embedded Linux, Commercial Compilers

VevSec



Our Mission - Fuzzing Enablement



"Bosch's embracement of such software security testing approaches is an example of how we proactively ensure security in our products."



Rakshith Amarnath // Project Lead



"We have always been looking for a better solution than our scripts to automated fuzzing in our CI. CI Fuzz is a good solution with a very nice integration in VS Code."





Götz Martinek // Managing Director

sodge IT

Winner of the Open Bosch Award

Award for the best start-up collaboration worldwide

OPEN

BOSCH



GD



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