

דביר רזניק מנהל השיווק, פתרונות סייבר סקיוריטי

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## חברת HARMAN "טכנולוגיות לחיים "מחוברים"

#### **CONNECTED CAR**



Navigation, Multimedia, Connectivity, Telematics, Safety & Security Solutions

LTM Revenue \$3,018M LTM EBITDA 13.7%

#### LIFESTYLE AUDIO



Premium Branded Audio products for use at home, in the car and on the go

# LTM Revenue\* \$2,023M

LTM Revenue\* \$1,013M

Audio, Lighting, Video Switching

and Enterprise Automation for

**Entertainment and Enterprises** 

**PROFESSIONAL** 

**SOLUTIONS** 

LTM EBITDA 13.2%

#### CONNECTED SERVICES



Cloud, Mobility and Analytics Software Solutions & OTA update technologies for Automotive, Mobile and Enterprises

LTM Revenue\* \$682M LTM EBITDA 13.7%

EBITDA is non-GAAP measure and excludes restructuring, non-recurring charges and acquisition-related items. LTM = Last Twelve Months ending March 31, 2016. \*Includes intercompany revenues, and industries. Incorporated



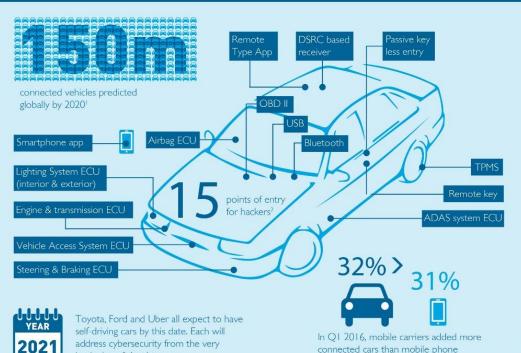
#### על מה נדבר היום

- 15. 15 ווקטורי כניסה לרכב
- 2. הרכב האוטונומי: V2X / V2V / IoT
  - .3 אבטחה מהגרעין או מהקליפה
- 4. תביא לי מערכת סאונד 700 וואט עם 18 רמקולים וסייבר סקיוריטי, בבקשה
  - 5. הגנה על רכבים עתידיים לעומת רכבים "על הכביש"

92016 HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED

#### The Car in 2016 – Connectivity on the Rise

subscribers to their networks



HARMAN is the industry leader in Automotive Cyber Security solutions for the



ECUs in today's average car that need protection<sup>4</sup>



100 million+

lines of software code on a modern car that need protecting, that's more than a Boeing  $747^6$ 



beginning of development

harman.com/security

Source information

Gartner, <sup>1</sup>Frost & Sullivan , <sup>3</sup>AutomotiveITnews.org

FireEye, <sup>5</sup>TechCrunch, finformationisbeautiful.net

**HARMAN** 

1. הרכב המחובר



#### 1. הרכב המחובר



# A NEW WIRELESS HACK CAN UNLOCK 100 MILLION VOLKSWAGENS





### 2. הרכב האוטונומי – חיישנים, IOT, V2X

#### ההרוג הראשון ברכב אוטונומי ג'ושוע בראון (40)

#### Tesla crash: how it happened A preliminary investigation into 25,000 Tesla Model S cars has been opened after a driver of one of the vehicles was killed while operating in Autopilot mode in a crash in Williston, Florida. Here is how the fatal accident occurred according to authorities A tractor-trailer on the westbound lane prepares to turn lef Tesla travels eastbound on highway Tesla's roof strikes (3) the underside of the trailer and passes underneath it Tesla travels off the road and hits a wire fence After traveling 6 It rotates across a field, the and comes to a final car strikes another wire fence 6 It passes through the fence and hits Diagram not to scale. a utility power pole Sources: Florida Highway Patrol Troop; U.S. National Highway Traffic Safety Administration C. Chan, 30/06/2016 REUTERS





#### 2. הרכב האוטונומי – חיישנים, IOT, V2X

A false positive, commonly called a "false alarm", is a result that indicates a given condition has been fulfilled, when it actually has not been fulfilled (i.e "crying wolf")

A false negative, is where a test result indicates that a condition failed, while it actually was successful. A common example is a guilty prisoner freed from jail.

ANDY GREENBERG SECURITY 08.04.16 9:00 AM

## HACKERS FOOL TESLA S'S AUTOPILOT TO HIDE AND SPOOF OBSTACLES



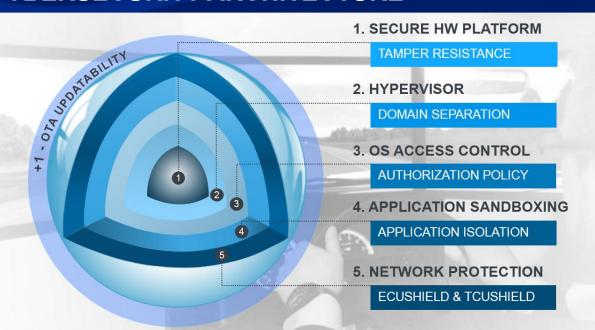


#### 3. אבטחה מהשכבה הכי פנימית

#### **SECURITY IN DEPTH**

# HARMAN

#### **5+1 CYBERSECURITY ARCHITECTURE**





#### 3. אבטחה מהשכבה הכי פנימית





## 4. כוחות השוק – רגולציה, צרכנים ומוניטין



המוניטין של יצרני הרכב



הדרישות של הצרכנים



רגולציה וממשל



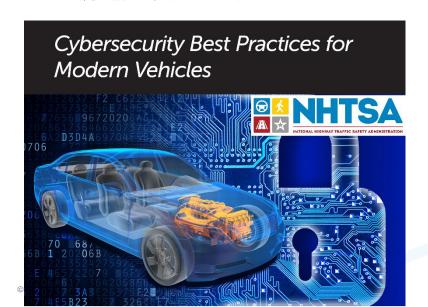
### 4. כוחות השוק – רגולציה, צרכנים ומוניטין

New rules of the road for self-driving cars have just

been released

The White House vs. robot cars

by Andrew J . Hawkins | @andyjayhawk | Sep 19, 2016, 8:00pm EDT









# בלייד ראנר 2049 HARMAN

▶ | **(**) 0:37 / 1:20





## תודה רבה!





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