

"WetWare" - human brain

Deane-Fuller Quotient

What to fear?
"GOOD AI" vs. "BAD AI"
Super-intelligence in near-term future

Two key scales:
1) Impact on Human Safety

Driverless cars, Robot Surgery, Weapon/Defense Systems, Power grids, Traffic Systems

2) Interaction by Humans Human overrides, Dashboards, Exception reporting, Alert systems, Logging

Augmented/assistive technologies vs. autonomous/ unattended

Al on a Scale

"Dry Al"

Unattended by humans	Chess		Traffic lights	Skynet
	Emotion Detection	iRobot Roomba		
	License plate detection			
	Vehicle routing		Energy grid	Autonomous vehicles
Augmented,		Crash avoidance vehicle breaking		Remote / Robot surgery
Assitive	Weather prediction			
Closely Attended by Human				\sum
	Low impact on humans safety		High impact on human safety	

"Wet Al"

Intervention + Impact = Wet-to-Dry Quotient If W2D quotient > 1.0 too "Dry", make "Wetter"

1.0 Unattended Skynet ⁰iRobot **Emotion** 1.0+1.0=2.0 by humans Roomba Detection Traffic lights License Chess Autonomous 0.75 + 0.75 = 1.5plate vehicles games detection 0.75 + 1.0 = 1.75Vehicle Energy grid 0.6 + 0.6 = 1.2routing Remote / Crash avoidance Robot surgery vehicle breaking Augmented, Weather **Assitive** prediction Closely **Attended by** Human 0.0 **Low impact on humans safety** High impact on human safety



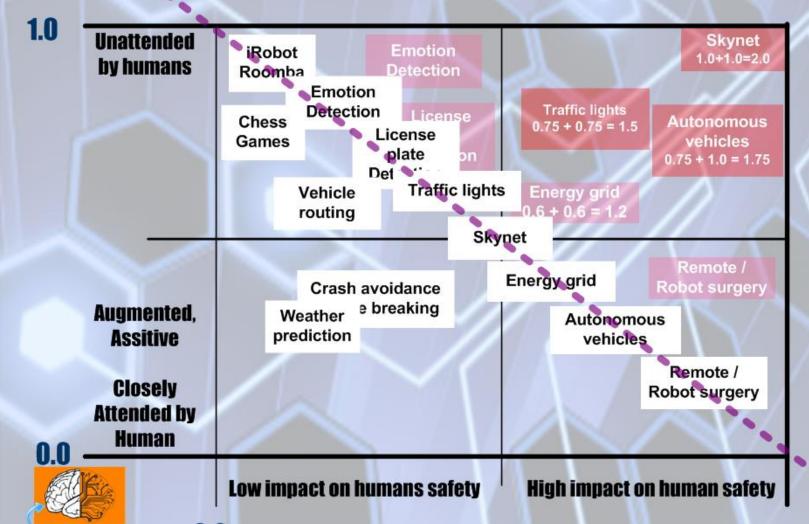
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Deane-Fuller Quotient = Human Intervention + Automation Impact If DFQ > 1.0, then introduce Human interventions

Increase "wetness":

Human overrides

- DashboardsException reporting
- Logging/insights Automated systems (big data)



1.0

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