



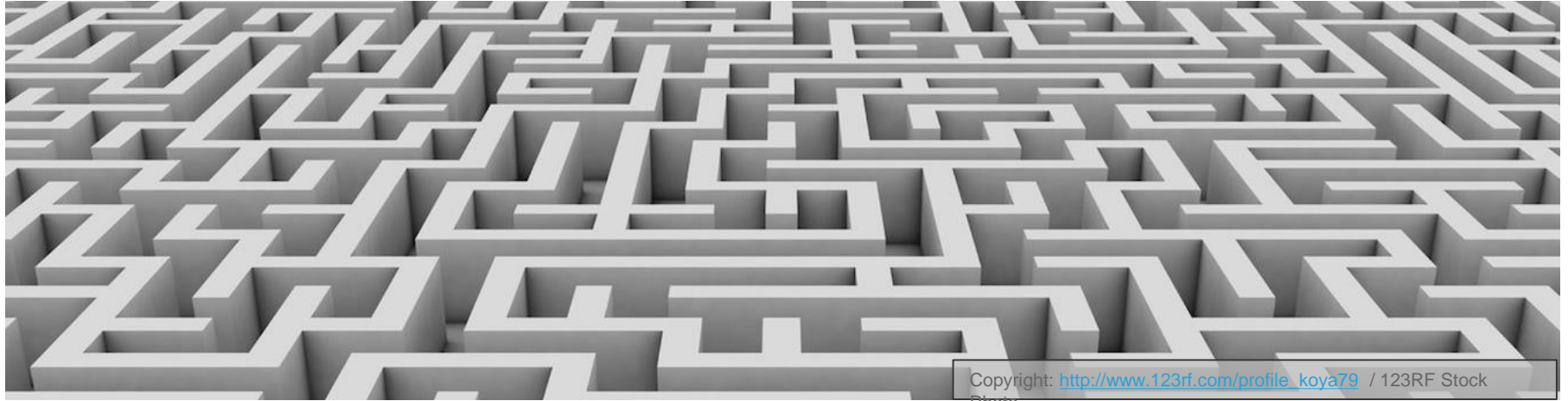
Sjálfstýrðar tæknilausnir

(eða “Hvernig verður framtíðin þegar tæknin tekur yfir...”)

Steinþór Bjarnason

sbjarnas@cisco.com

UT Messan: 6. febrúar 2015

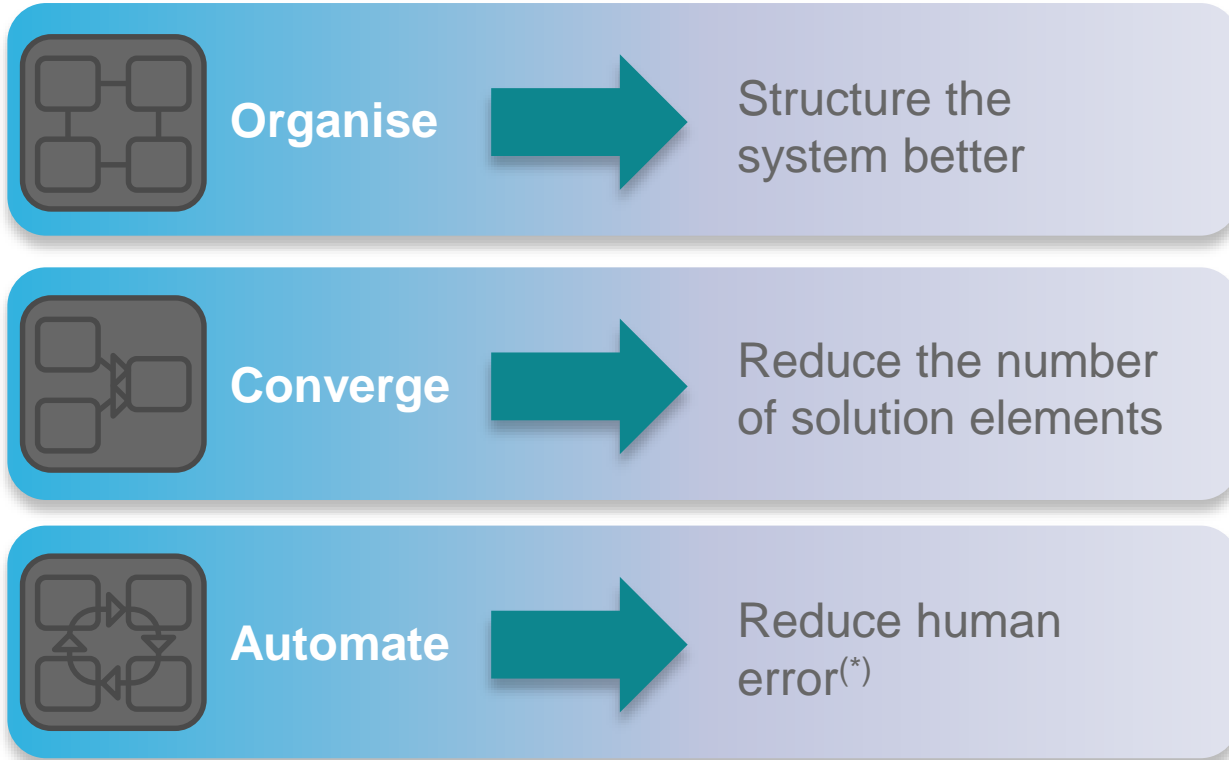


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Complexity

The barrier to innovation

Managing Complexity



Organise: Making sense of chaos



Organise: Making sense of chaos



Convergence: Before

In 1991...

Radio Shack
AMERICA'S TECHNOLOGY STORE

PRESIDENTS' BIRTHDAY SALE!

ALL-Weather Stereo
Cut 34% **1189**
Realistic STEREO-WATERPROOF
Full portable music storage off
hand, water-resistance

AM/FM Clock Radio
30% Off! **1389**
Clockradio® 281 clock
radio's compact size cuts
nightstand clutter in half

In-Ear Stereo Phones
HALF PRICE! **789**
Realistic® in-ear phones are
light, weigh just 8 & crucial with
only 100% battery life!

Micro-Thin™ Calculator
30% Off! **489**
Radio Shack EC-411 is
almost the size of a credit
card! (Not allowed, see us!

DON'T DELAY! 3-DAY SPECIALS ABOVE GOOD SATURDAY THRU MONDAY ONLY!

0% INTEREST!
NO PAYMENTS UNTIL MAY!
NO DOWN PAYMENT!

HURRY! OFFER ENDS TUESDAY FEBRUARY 19

COME IN AND TAKE ADVANTAGE OF THESE OTHER FANTASTIC VALUES!

INTRODUCTORY SPECIAL!
TANDY™ 1000 TL/3 Computer System
Save \$670
\$1599
• 1MB SASED PC Compatible
• Color Monitor
• 10MB SmartDrive™ Hard Drive
• Easy-to-use 10-in-1 DeskMate™ Software
• 16 MB SOFTWARE
BONUS PACKAGE
• 1 Year Free Support For DeskMate
• DeskMate O&A Write
• 3-Button Mouse

VHS Camcorder
Save \$100
\$799
Realistic Model 882 includes color light for easier viewing, 2-in-1 lens, 100% VHS, 100% automatic, etc.

3-Way Speaker With Massive 15" Woofer
Save \$110
14995
Realistic Model 707 features 15" woofer, 2" tweeter, 100% VHS, 100% automatic, etc.

Mobile Cellular Telephone
Save \$100
\$199
Look At It For Mobile... Reg. 299.99

Deluxe Portable CD Player
Save \$40
15995
Look At It For Mobile... Reg. 199.95

Tiny Dual-Superhet Radar Detector
Save \$60
7995
Real Probe 287, detector with radar with continuous, Separate X and K-Spans, 200-200

Compact 10-Channel Desktop Scanner
Save \$30
9995
Realistic PRO-27 sets you up with 10 channels, 100% VHS, 100% automatic, etc.

Mobile CB With Channel Controls on Mike
HALF PRICE! **4995**
Realistic TRC-438 sets you up with 40 channels, 100% VHS, 100% automatic, etc.

Our Easiest-to-Use Phone Answerer
Cut 17%
4995
EASYPHONE™ 180-247 answerer is ready to use... 100% VHS, 100% automatic, etc.

Handheld Voice-Activated Cassette Tape Recorder
40% Off
2995
Realistic CTR-85 comes in 100% VHS, 100% automatic, etc.

Check Your Phone Book for the Radio Shack Store or Dealer Nearest You

Most Major Credit Cards Welcome

\$5,225 (2013 value)

Convergence: After

In 2015...



\$649



Automating the car (and the driver)

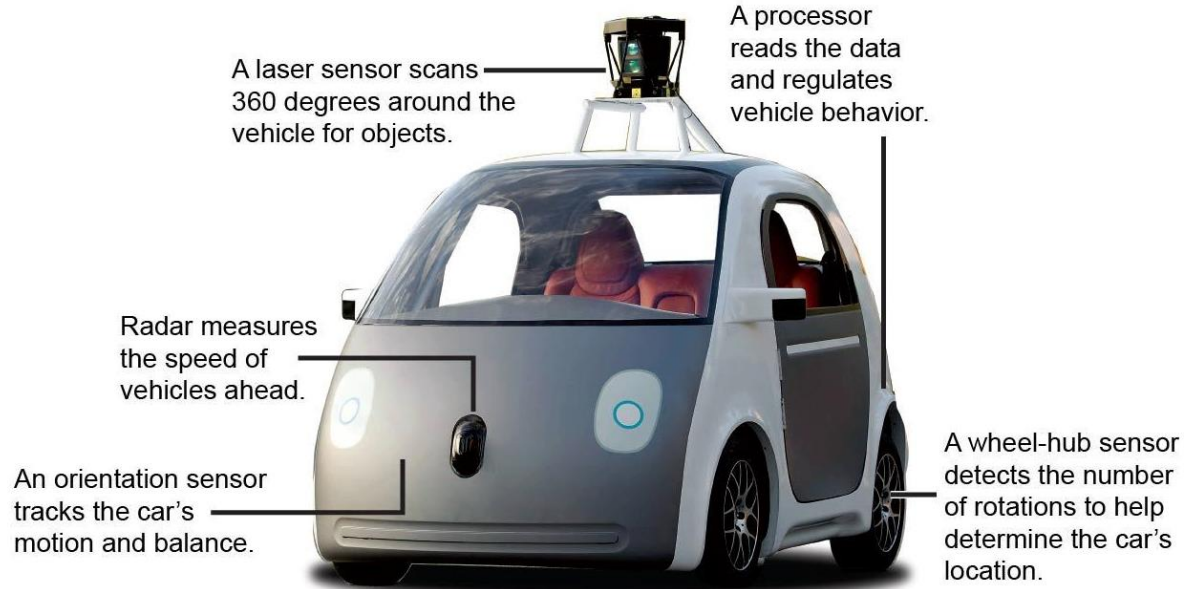
Why do we need automation in cars?

“88% of drivers in USA believe they are better than the average driver...”

Wikipedia: Illusory superiority

Automating the car

The self-driving, fully automated, Google car



Source: Google

Raoul Rañoa / @latimesgraphics

Automating the car (a more fancy version...)

The self-driving,
fully automated,
Mercedes car



Benefits of automation in cars

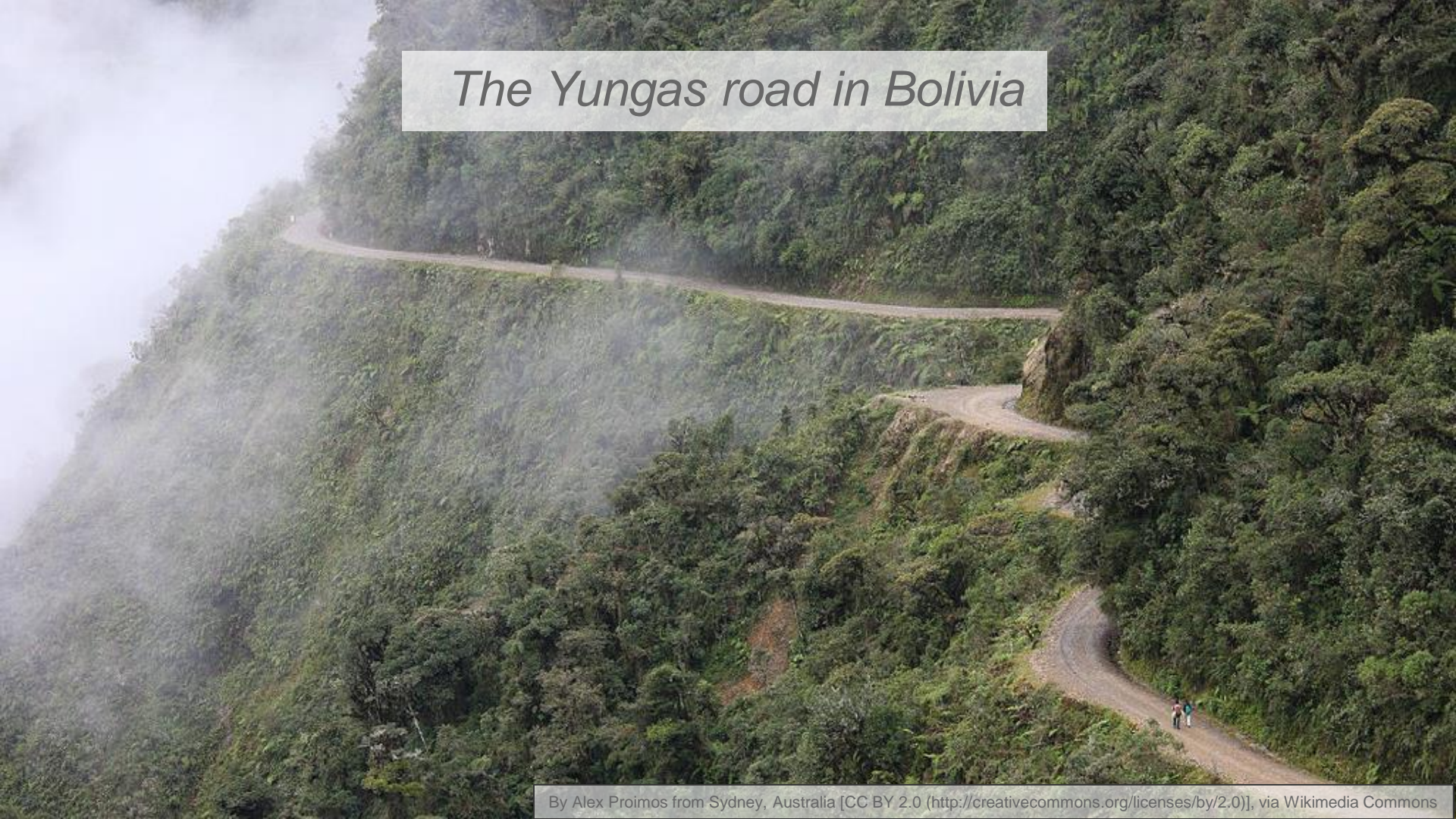
“... self-driving cars [will] cut the roughly 40,000 annual US traffic fatalities in half...”

Future of Life Institute: Research priorities for robust and beneficial artificial intelligence

Benefits of automation in cars

“... the car makers [may not] get 20,000 thank-you notes, but 20,000 lawsuits....”

Future of Life Institute: Research priorities for robust and beneficial artificial intelligence

A photograph of a winding dirt road on a steep, forested mountain slope. The road curves through dense green vegetation, including trees and ferns. The scene is misty, with a white fog or low cloud partially obscuring the left side of the mountain. In the lower right, two small figures of people are walking on the road. The overall atmosphere is serene and adventurous.

The Yungas road in Bolivia

Autobahn in Germany





Can we apply the same concepts to other
areas?

... but should we?

What do these people have in common?

- Elon Musk (Tesla)
- Stephen Hawking, Professor
- Stuart Russel, Berkeley
- Leslie Kaelbling, MIT
- Michael Osborne, Oxford
- Laurent Orseau, Google
- Eric Horvitz, Microsoft

“We recommend expanded research aimed at ensuring that increasingly capable AI systems are robust and beneficial: our AI systems must do what we want them to do.”

Quote from an Open Letter “Research Priorities for Robust and Beneficial Artificial Intelligence” - The Future of Life Institute (FLI)

Automation and the future

- Automation will save lives and create a better society
- We need to update our legal systems to take advantage of these new automated technologies
- ... but be aware of technology directions





CISCO

TOMORROW starts here.