

Extreme Ownership for LPPD Teams.

"The Principles of Effective Leadership"

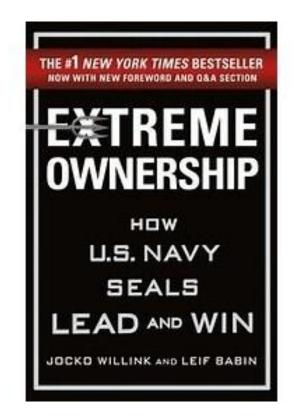




Objectives with Today's Mini-Workshop

Focus on Extreme Ownership:

- Understand the idea behind (Why).
- 'Why & Vision' over 'What'
- Vs. leadership style and teamwork.
- Vs. risk mitigation.
- Vs. Lean/ Agile (LPPD).





what Extreme ownership and teams and teams to leaders and teams means to leaders





Christer Lundh

Senior Leader on "Keep it Simple" Mission
Owner and Consultant AUFERO AB
Work embedded, servant and transformational, helping leaders and teams to succeed with Agile and Lean Product Development.

Lean and Agile Development



Internal Combustion Engines



Gear shifters



Power Electronics



Electric Motors



IoT Sensor

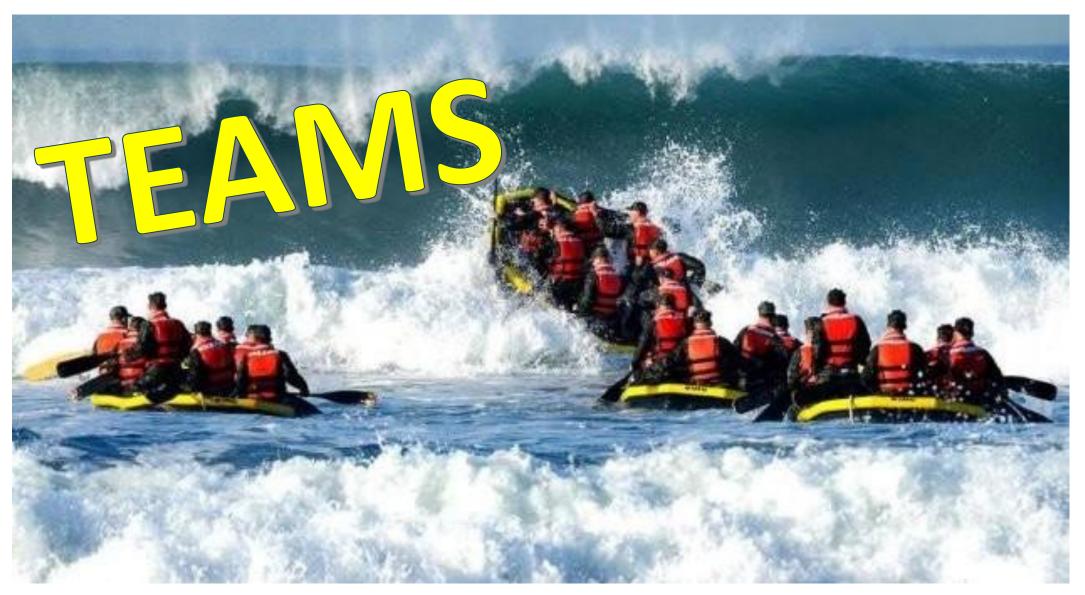




Customer









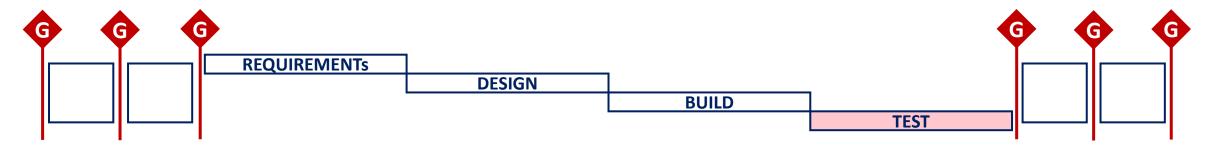
The attribute of exceptional leaders. They take absolute ownership

Extreme Ownership –

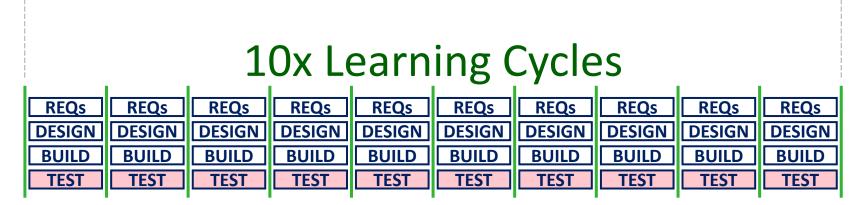
not just of what are their responsibilities, but for everything that impacts their mission.

Two Major Paradigms





Process Compliance (Resource Utilization)



Knowledge Based a.k.a. Lean/ Agile (Continuous Flow)



Lean Product and Process Development





EXTREME OWNERSHIP. Leaders Must Own <u>Everything</u> in Their World. There Is No One Else To Blame.



- ▶ It's all about the **TEAMS** "No bad teams, only bad leaders."
- Great leaders take ownership for MISTAKES and FAILURES, admit mistakes, develop solutions and solve problems.
- ► Taking Extreme Ownership, great leaders CHECK THEIR EGO.
- Great leaders don't tell people what to do. They provide the WHY and the VISION – their INTENT.
- ➤ SIMPLE minimize complexity (compounds). Complex plans add to confusion. Simple plans, everyone UNDERSTANDS.



EXTREME OWNERSHIP. Leaders Must Own <u>Everything</u> in Their World. There Is No One Else To Blame.



- Individuals of teams must BELIEVE in the cause, the plan and trust their leader.
- Teams must ask until they UNDERSTAND. They must get it.
- TEAMWORK leadership the single greatest reason behind success of any team.
- Leaders PRIORITIZE, teams understand and EXECUTE.
- ▶ **DECENTRALIZED COMMAND**, use **INTENT** (Why), then teams adjusts to challenges and changes and take initiatives.





EXTREME OWNERSHIP - WHY!-



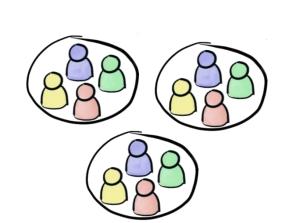


- Lean/ Agile is conversation and COLLABORATION based.
- Organizations need **AGILITY**. It's up to the Senior Leaders if that shall be realized!
- Agility require good **CONTINUOUS FLOW** major lean principle.
- Everyone can pivot fast (hour-days) on events:
 - + Emerged **PROBLEMS** or → small @ beginning



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- Teams are busy.
- Teams can't make the transformation and take Extreme Ownership of their assignments and improvement work instead ...
- The Senior Leadership level must take EXTREME OWNERSHIP phrase WHY and serve teams.



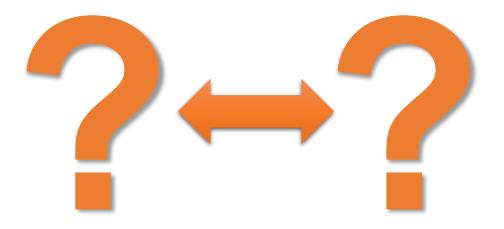






What it means to leaders:

- If the leader can't understand Why.
- He/she won't get their teams to understand and execute as intended either.







What it means to teams:

- If the individuals on a team can't understand Why.
- They won't know how to act when the situation change.

In the new age we're living in of Cloud, Partnership, Platforms, Networks, Ecosystems and Collaboration:

No Agility, No Pivot,
 i.e. No Digital/ Culture Transformation





EXTREME OWNERSHIP - LEADERSHIP -



"No Bad Teams, Only Bad Leaders"









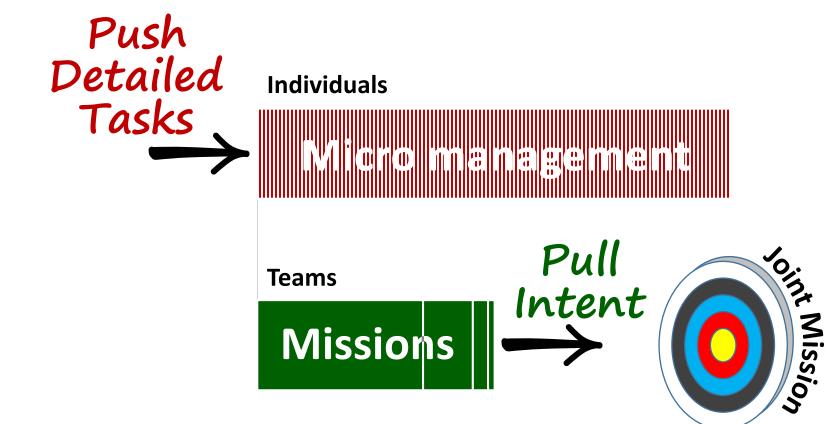
Tell people **WHY** and give people VISION!



Build and Lead Teams – Collaboration Has Explosive Upsides



command

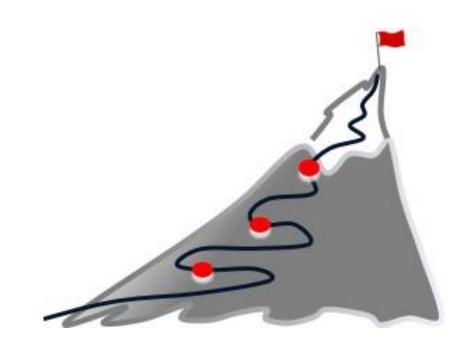


Missions Tactions

"It's Not What You Preach, It's What You Tolerate."



- Setting the standards.
- If substandard performance is accepted and no one is held accountable no consequences that poor performance becomes the new standard.



- Leaders must push the standards, encourages and enables the Teams to utilize Extreme Ownership.
- Teams push the new better standard.



The Leader Is Both the Leader & the Trainer



- Teams to become 'Teams of Experts.'
- The leader participate in their Teams on the job training.
 Leaders don't know best.
 They're also continuously learning.
- A good leader:

 a nudger, inclusive, supportive and inquisitive, and learn from mistakes.
- No one is perfect!



Dec. 2018 to May 2021 (29 months). SpaceX built and tested 18 prototypes.

Flow of tests is superior when prototype cost, set-up time and queue time are greatly reduced.





The most important question to answer: **WHY!**

All who don't understand, MUST ASK.

To inspire, the leader must be a TRUE BELIEVER.

Huge Difference of the Leader Role – Push Vs. Pull



Does 'Batch And Queue' Set Up, Force Push Management?



Does 'Flow' Set Up, Pave Way For Pull Leadership?



I.e. When Everything Is Started, Ongoing, Managers Are Forced To Push Trying To Gain Control. I.e. When Creating Visible Flow, And Limit Work In Process, Managers Can Start To Pull Aiming At Targets.

Try to get Control and used to Command

- + Listen and Support, remove obstacles
- Everything is started (ongoing) large WIP

- + WIP constraints **small WIP**
- Managers Push against deadlines, that usually are missed
- Leaders Pull aiming at targets that usually are met
- Invisibility, cannot see current conditions
 e.g. difficult to see queues, congestions, and
 state of occupancy. Difficult to have an
 overview to make the best trade-offs.
- Transparency, see current conditions
 e.g. see queues, congestions, and state of
 occupancy. Have overview and makes in-real
 time priorities.

People are stressed and get demotivated

People are committed and responsible





EXTREME OWNERSHIP -RISK MITIGATION -



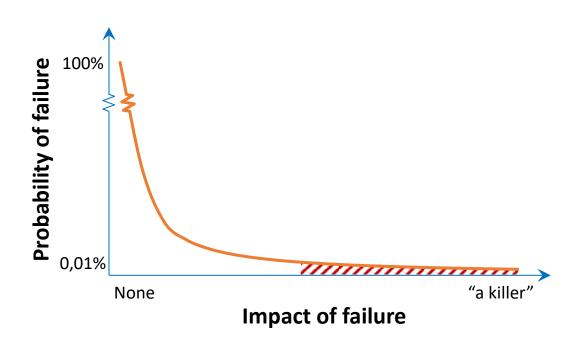


EXTREME OWNERSHIP - TEST EARLY & OFTEN -



Risk Management





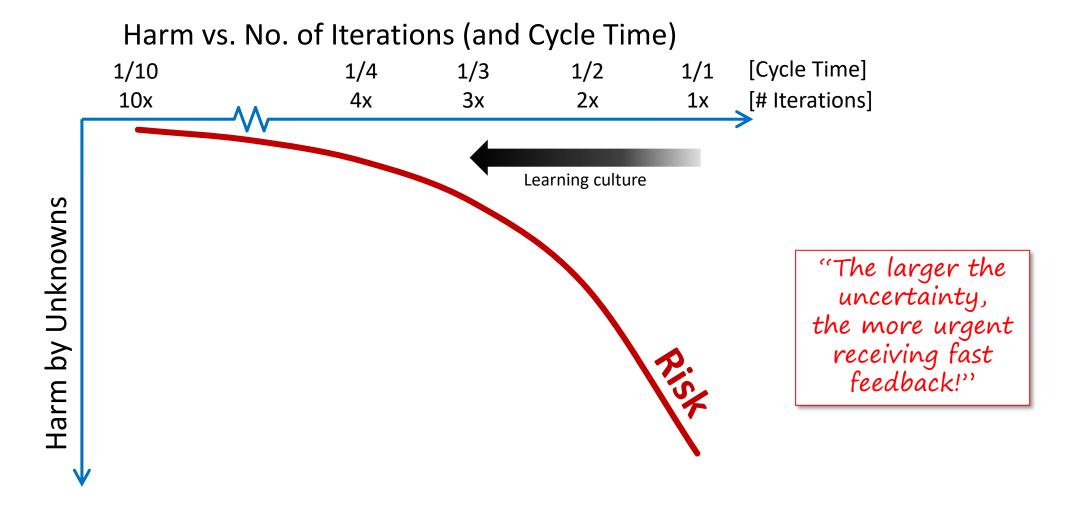
Tail Risks – High Impact of Failure – Are Very Harmful:

- The potential impact (f(x)) always overrides probability of x the likelihood.
- The two parameters cannot be multiplied together to prioritize risk management.
- Risk mitigation reducing the impact is more important than risk reduction (reducing likelihood).
- E.g. mitigate Impact of Delay rather than reducing Probability of Delay.
- Prioritize mitigation actions on items with large Impact (f(x)) of Delay.



The Development Process As We Know It Is Fragile!





How Do You Mitigate Risks In Your Development Activities?



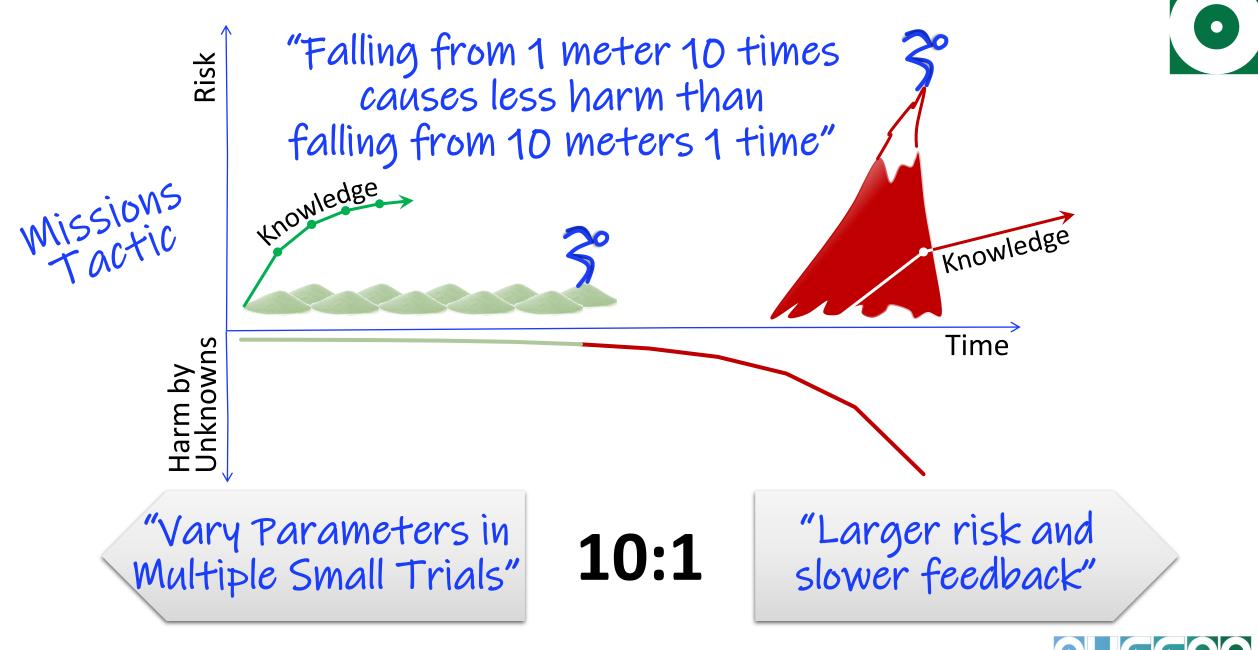


Big batch vehicle/ system testing, backend to verify. Late detections of failure forces 'adding' to make it work.



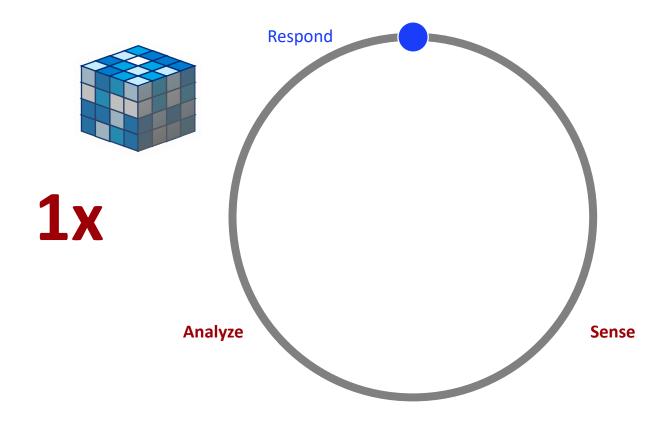
Continuous flow of small trials. Early failures are most often small and benign, even reversible and quickly overcome. They are also rich in information. Ensures front-end 'subtracting' of what doesn't work.



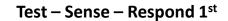


Development has a Flow Issue









Test - Sense - Respond 2nd

Test - Sense - Respond 3rd

Test - Sense - Respond 4th

Test - Sense - Respond 5th

Test - Sense - Respond 6th

Test - Sense - Respond 7th

Test – Sense – Respond 8th

Test – Sense – Respond 9th

Test - Sense - Respond 10th

10x

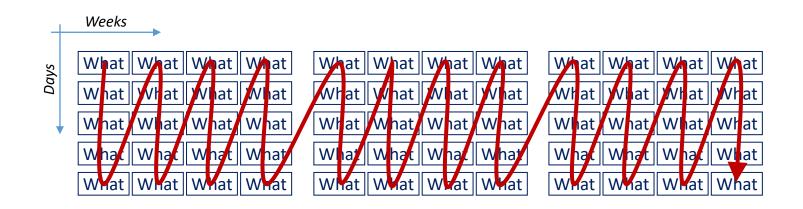
If customers matter, SPEED matters, so do flow and cadence



Sense – Analyze – Respond 1st

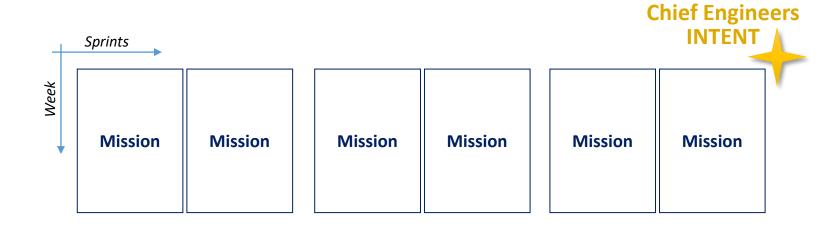
Teams Overwhelmed or Win on Any Challenge





Focus on 'What'

Everything is planned.



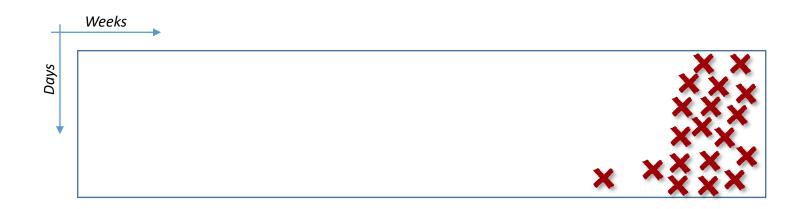
Focus on 'Why'

Trials with small errors (iterations).



Extreme Ownership of Mistakes & Failures

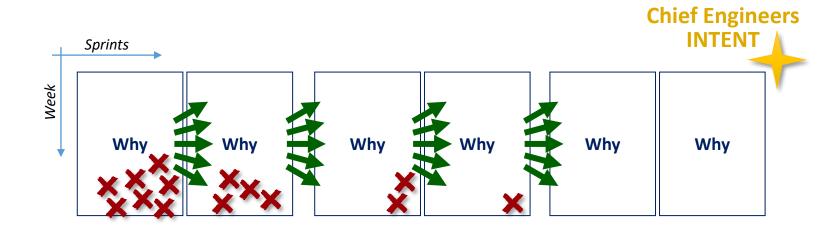




Shattered work.

The errors pile up at the right end.





Finished missions.

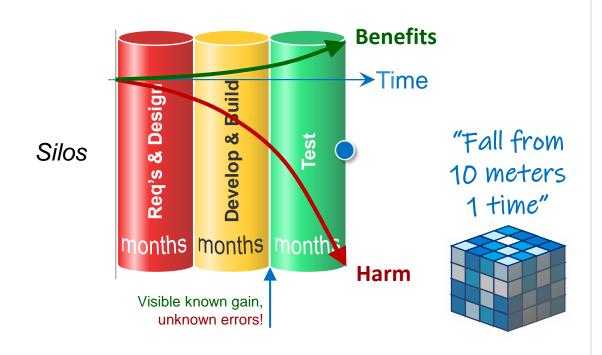
Creating options as outcomes.





Large Asymmetry in Difference Between Benefit and Harm





Small known errors, large positive gains!

"Fall from 1 meter
Time

Benefits 10 times"

- Test to validate final product.
- The more comprehensive and late
 the stronger negative asymmetry.



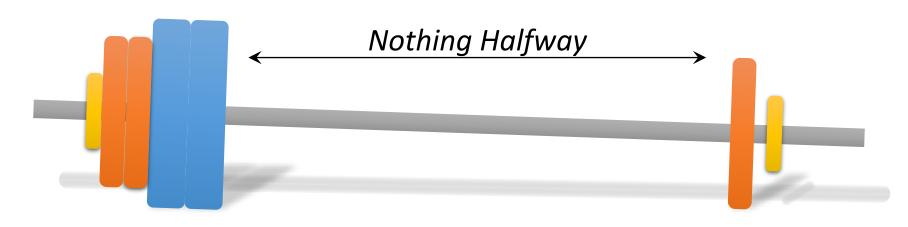
- Multiple small trials, on subsets, to outer limit to solve problems and learn with customers.
- The cheaper, simpler and faster
 the stronger positive asymmetry.





Combination of Aggressiveness Plus Paranoia...'Teams of Experts' Protect Themself from Extreme Harm...





CONSERVATIVE

Everything Planned

1-2 Learning Cycles:

Visible Known Gain (+)
Unknown Errors (--)

AGGRESSIVE

Teams Create Bottom-up Knowledge

10–100 Learning Cycles:

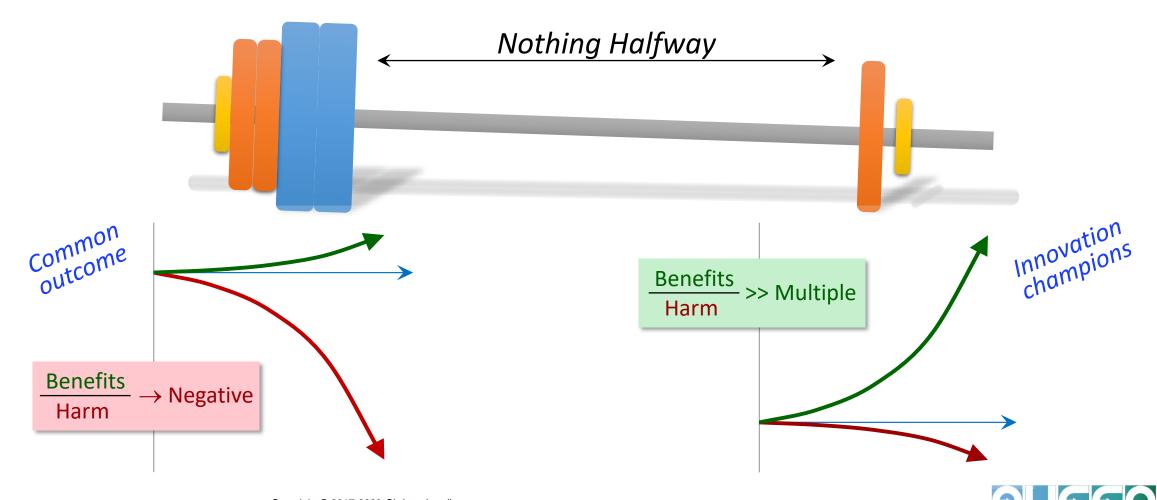
Small Known Errors (+) Large Positive Gains (++)



Combination of Aggressiveness Plus Paranoia... ... 'Teams of Experts' Protect Themself from Extreme Harm... And Let the Unside Take Care of Iteals



...And Let the Upside...Take Care of Itself



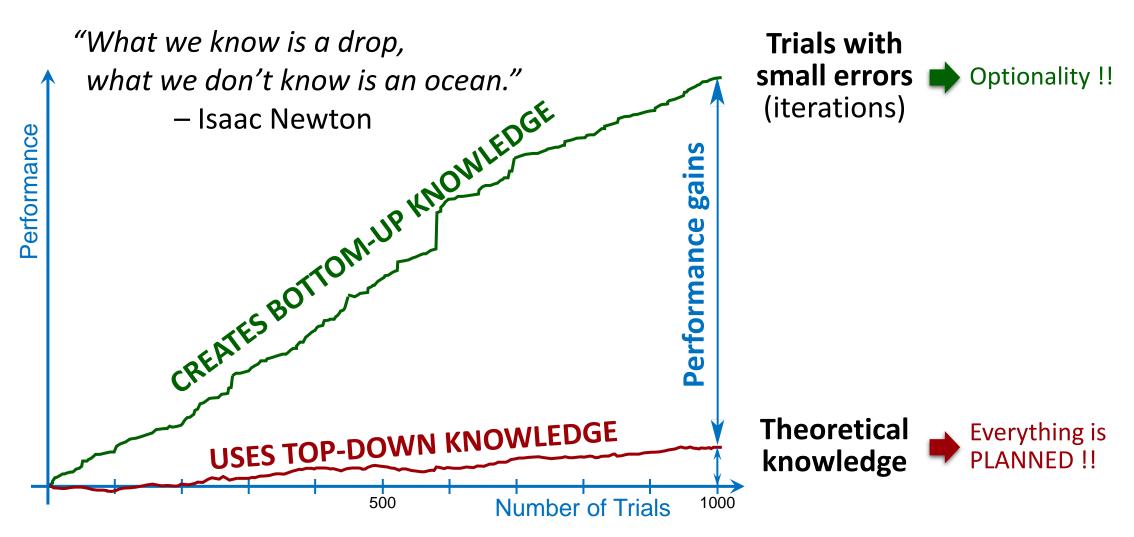


EXTREME OWNERSHIP - LEAN / AGILE -



'Trials with Small Errors' Outperforms 'Theoretical Knowledge'



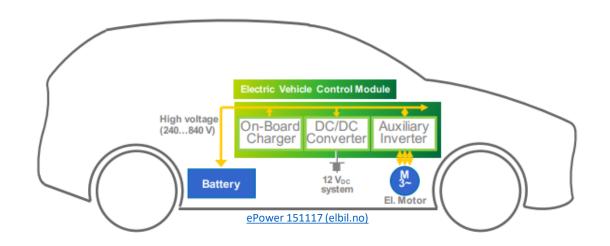


Simplicity – Intent



"To develop a platform of On-Board Chargers; Reliant,

Easy to Install and
within Unit Cost Target."

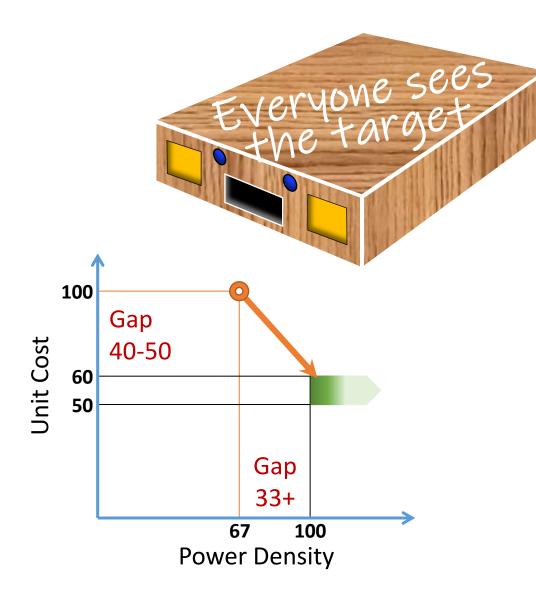






Understand – Teamwork – Decentralized Command





Reliable

Eliminate risk of coolant water leakage

Easy to Install

- Power density 67 → 100+ Gap 33+ (size)
- To fit all interface connections on a short side

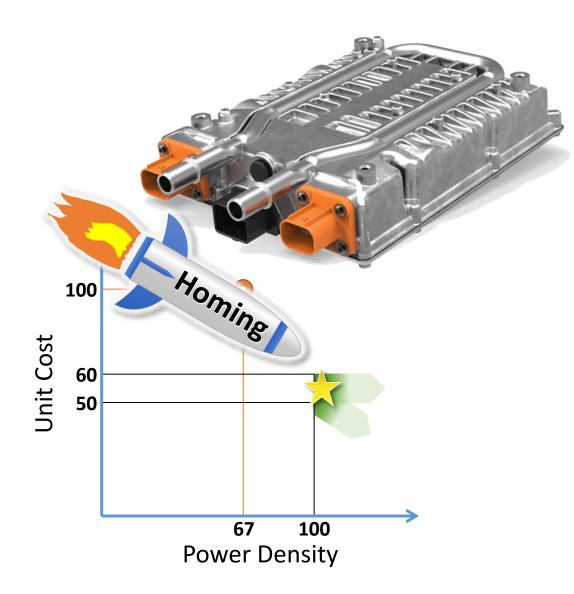
Unit Cost Target Range

▶ Unit cost $100 \rightarrow 60-50$ **Gap 40-50**



Believe – Prioritize & Execute





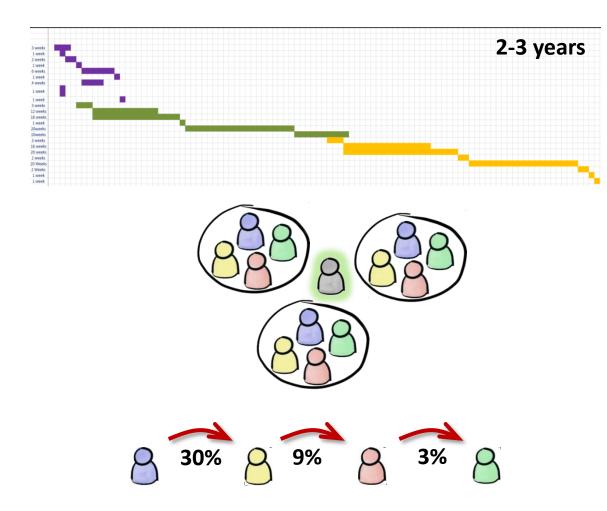
- The worlds smallest (kW/dm³)!
- All interface connections on the short side!
- Eliminated risk of coolant water leakage!
- Multiple sets / options inside the target range of the unit cost!

"The empowered team delivered on the intent through a massive number of initiatives at high speed"



Develop Solutions & Solve Problems



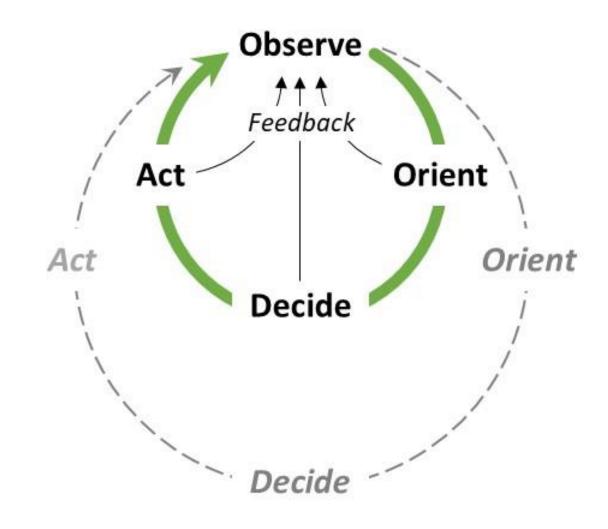


- Multiple year project budgets (Finance rule):
 - Head count >> Customer collaboration
 - Arbitrary objectives
 - Decision cramp
- Absence of mutual trust (fear culture).
- Leaders to act as the trainers for their teams, since teams constantly learn by doing On the Job Training (OJT).
 Small errors are sources for improvements.
- Distance, absence of direct communication, between customers and developers.



Decision Making (OODA-Loop Maneuvering)

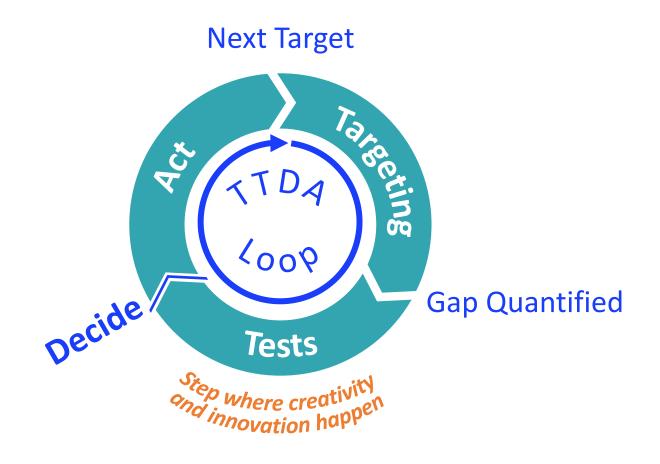






Team's Problem Solving 'Loop' - Repeated Infinitely

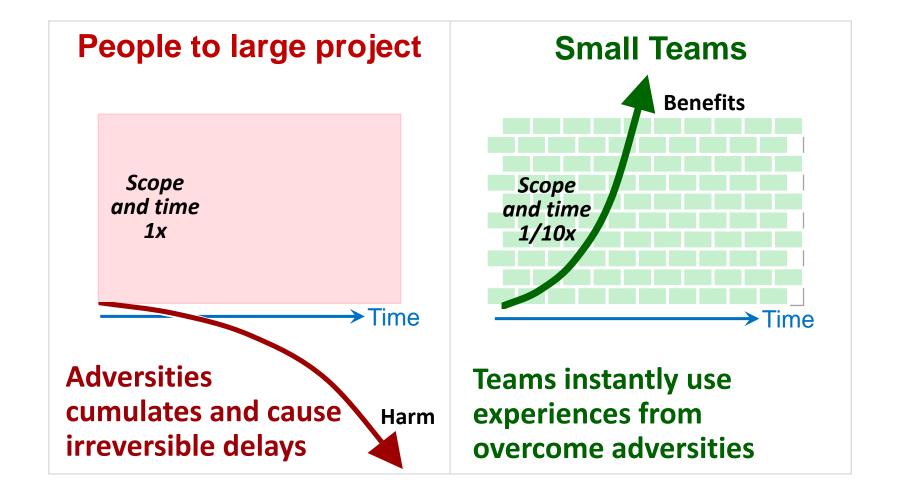




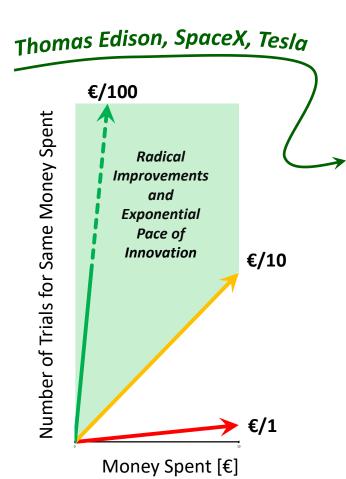


Remember "It's Not What You Preach, It's What You Tolerate"









What Do the Innovators with the Highest PACE OF INNOVATION Have in Common?





- Radically improved **PAYOFF FUNCTION** for testing, experimenting and learning, also on hardware (€/10+)
- FEEDBACK CYCLES of just hours or days (€/100+)
- Benefits, creating OPTIONS from TRIALS WITH SMALL ERRORS





"You Can Be That Extreme Ownership Leader"





Thank You

