Lean-Driven Project Management

Norbert Majerus

13 years experience with LEAN PM in the Goodyear Innovation Centers

7/16/21

PM University

GOODYEAR TIRE & RUBBER COMPANY

PURPOSE of Lean-Driven PM

Turn good PM's into excellent PM's

Not So Lean PM Experience

- My first PM class no use for that here
- My first big project no help
- We just call it no support
- The desire for control the GANTT chart trap
- The HERO ambulance management
- Goodyear first attempt knew about Chrysler CE academic consultant
- Representing the customer the strongest wins
- Lead as if you have no power or authority
- Largest functions managing crossfunctional projects .. Lack of collaboration
- "Happy Team" syndrome compromised products and encouraged team competition
- Stage gate implemented to kill projects but it created collaboration
- PM Software EXPENSIVE BAD PROCESS
- Today: Right Organization and PMO building and learning

Goodyear PM Success

Before Lean ~ 50%

After Lean - 100%

Why do we do projects with a project manager?

- We need something
- No single competency can do it alone
- A team plays better with a coach

PM is the collaborative effort towards something

The IDEAL Project

- Everybody is happy and had fun
- Everything was delivered on time, target, budget...
- The world is a much better place for all involved
- There are no side effects

What is Lean

- Applying the PRINCIPLES of lean or operational excellence
- AND
- A culture that makes all stakeholders happy

My ~40 years in the industry

- Nothing had the impact of "lean" or the neverending improvement of people and processes
- It took me 40 years to learn it and I am still learning
- I wish I had learned it earlier
- Business schools (and PM organizations) are catching up

Principles of Lean Project Management

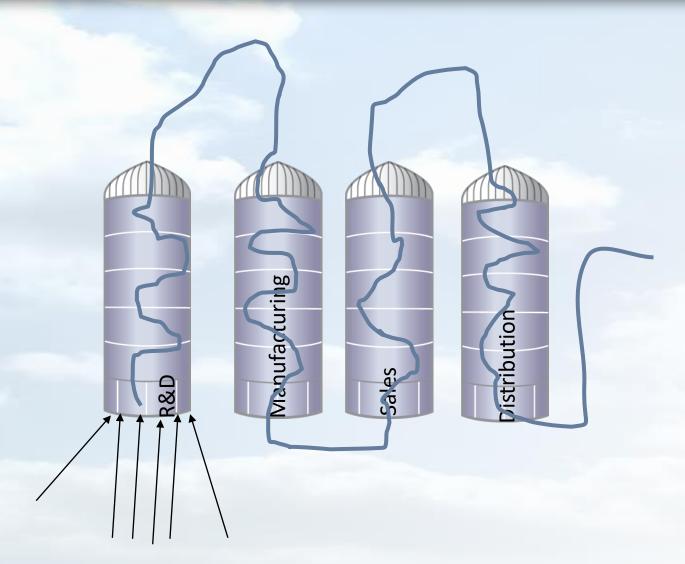
- •LINE THINGS UP FOR SUCCESS
- •IMPROVE THE GOOD THINGS YOU ALREADY HAVE
- •ACHIEVE EXCELLENCE BY
 IMPLEMENTING THE PRINCIPLES OF
 LEAN PROJECT MANAGEMENT

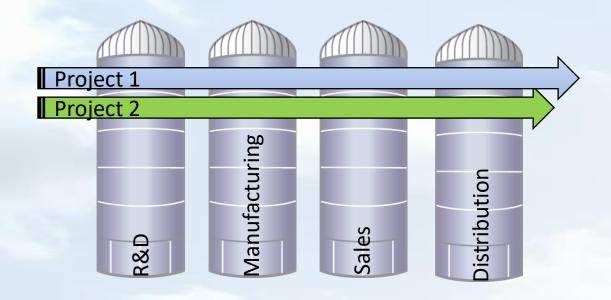
Line Things Up For Success

- Remove Obstacles
- Proper Change Management
- Right Organization

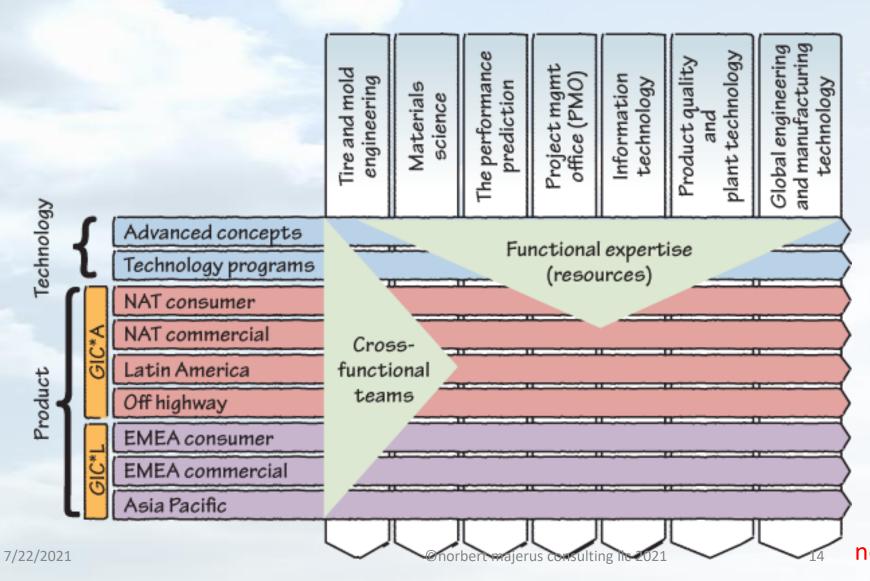
Grafting the Chief Engineer on ANY Organization

From



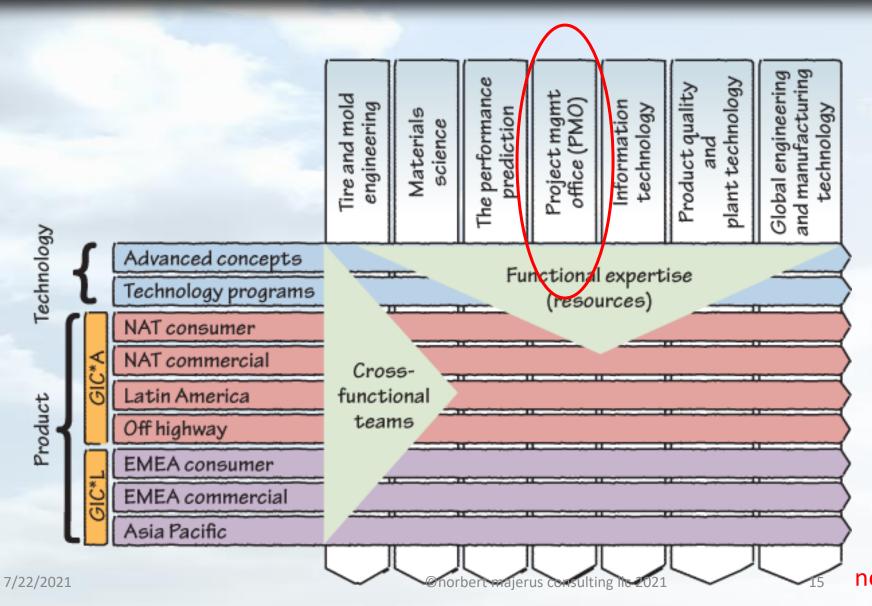


Matrix



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Matrix



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IMPROVE THE GOOD THINGS YOU ALREADY HAVE

- Working on the right stuff
- Goals
- Contract

It is disrespectful to tell people what to do

Catchball ... in a dodge ball culture

People are accountable to deliver on agreed goals

https://www.google.com/url?sa=i&url=http%3A%2F%2Fwww.aleanjourney.com%2F2011%2F12%2Fuse-catchball-process-to-reduce.html&psig=AOvVaw3bspM4pkWCbNRDnU2sjmHO&ust=1626385938259000&source=images&cd=vfe&ved=0CAoQjRxqFwoTCMjJl PF4 ECFQAAAAAdAAAAABAG

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Principles of Lean Project Management

FOUNDATIONAL

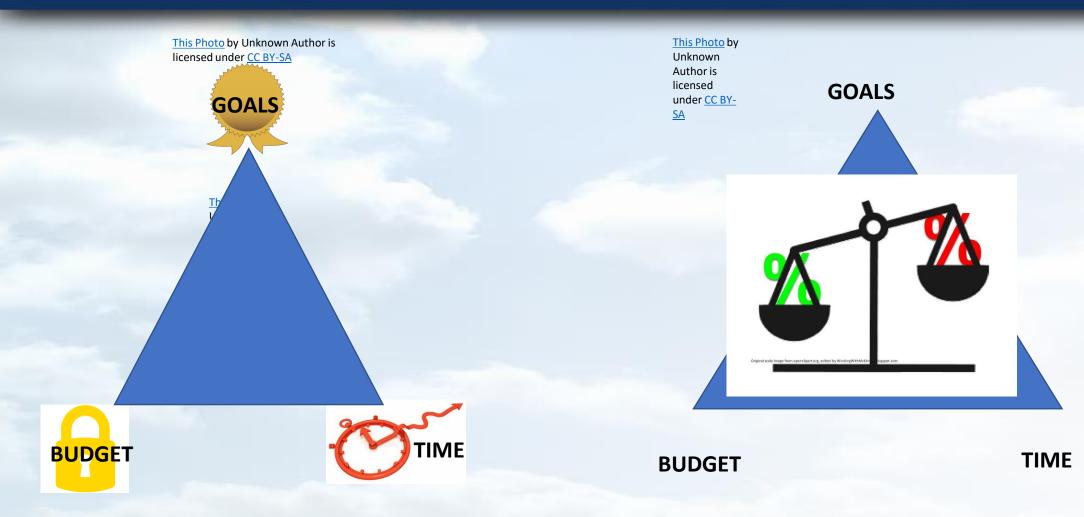
OPERATIONAL

MANAGERIAL (PEOPLE)

Foundational Principles

- Portfolio Management
- Know the cost of time, goals, resources, targets
- PMO function
- Lean Risk Management

Flexible Management



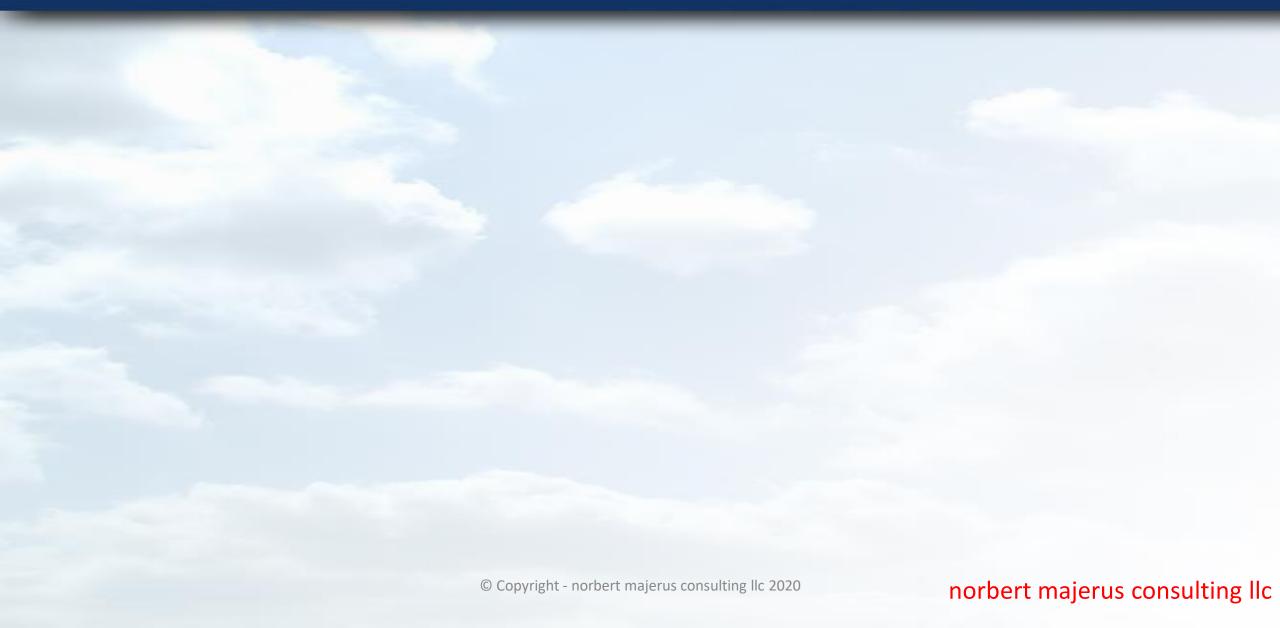
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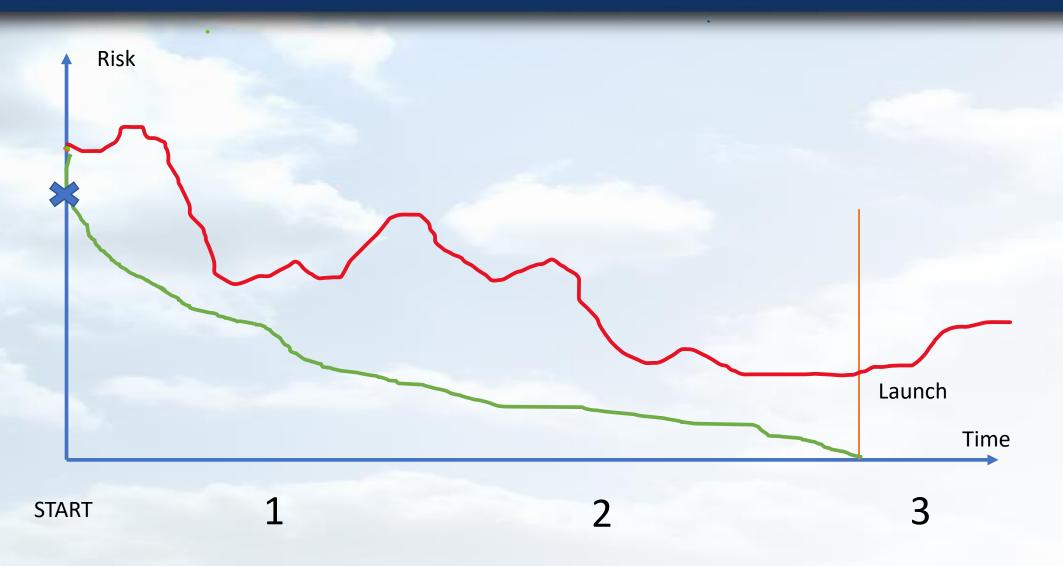
Principle

- The cost of time mostly dwarfs the resources that are needed
- Only project managers who do not know the cost of time let the time slide

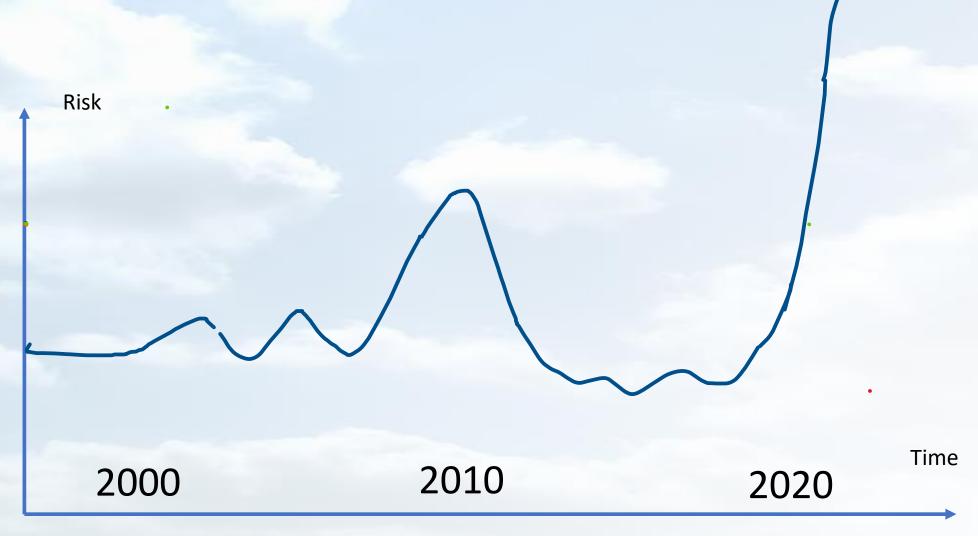
Lean Risk Management



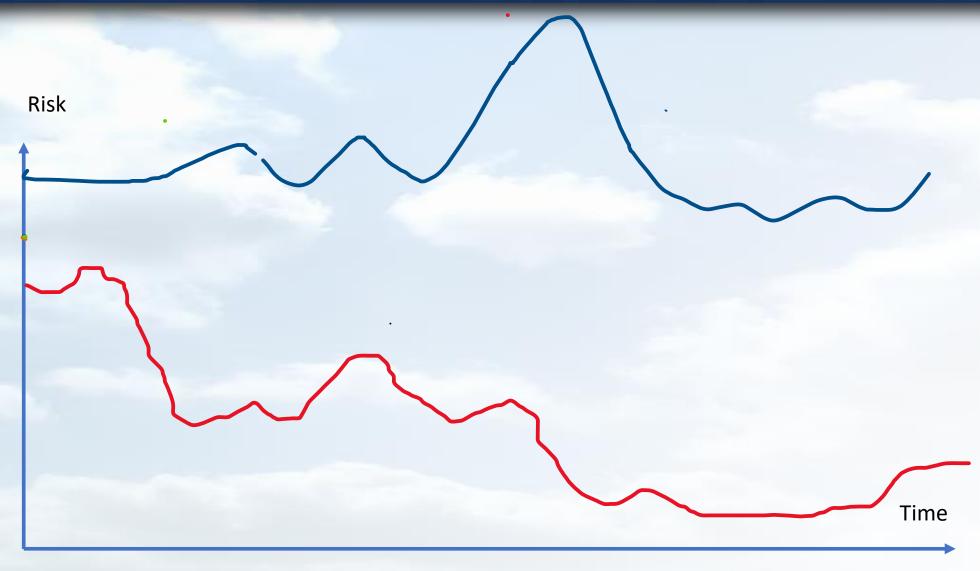
Project Uncertainty/Risk



Economic Uncertainty



Project Risk



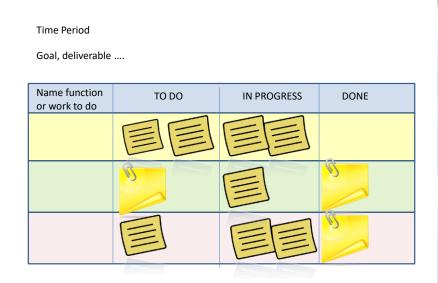
2 Leading PRINCIPLES

You know nothing about the project until you start working on it

And things will change every day



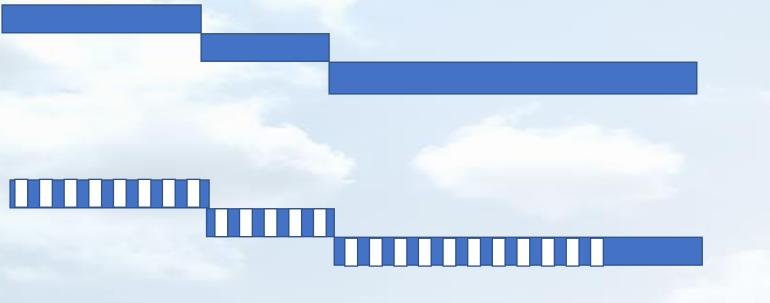
Quick Learning Cycles – SCRUM, sprints, agile ...

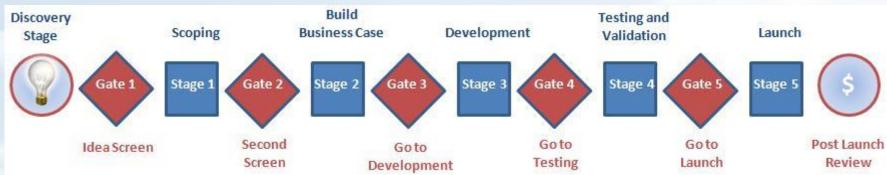


Potentially Shippable Product after every cycle

- Work in very small steps, FAST often time limited steps
- Cross functionally from the beginning
- Retain flexibility through the process launch or pivot at any time
- And
 - With the minimum effort

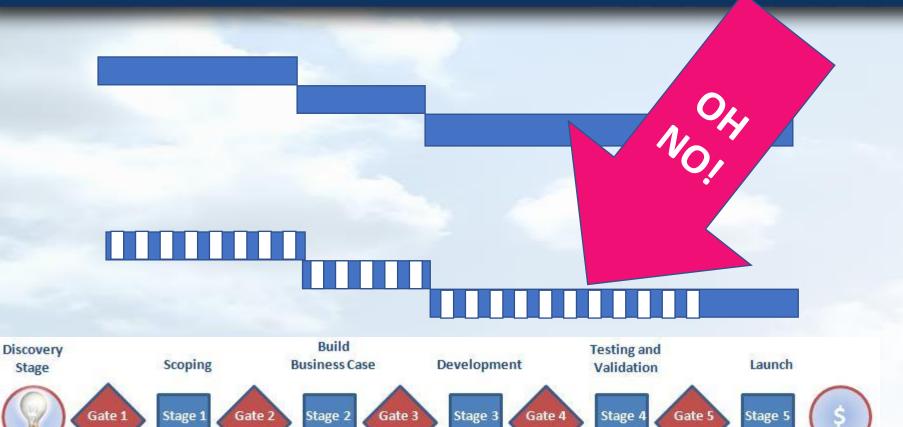
Agile - but not like this





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Agile - but not like this



Goto

Development

Goto

Testing

Goto

Launch



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Post Launch

Review

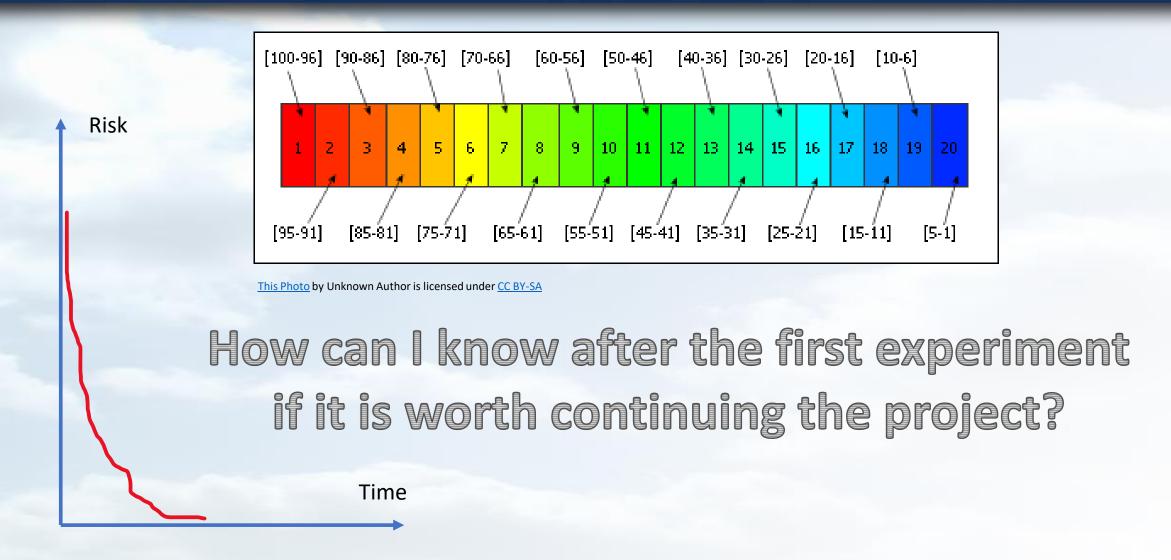
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Second

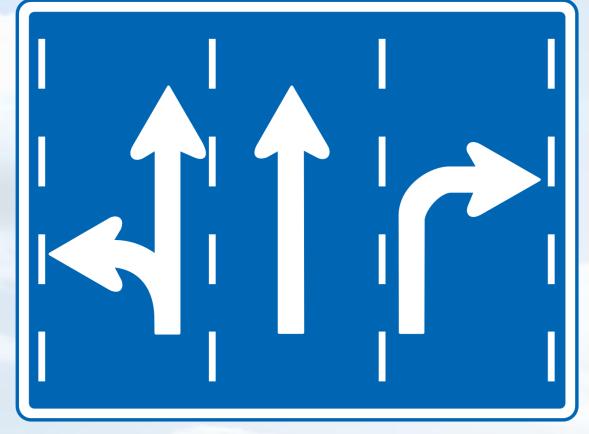
Screen

Idea Screen

Follow the Risk Scale With Critical Questions



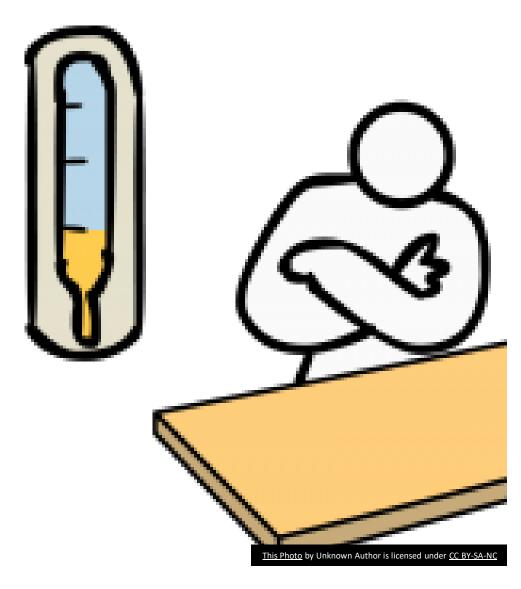
Stay the course



Freeze

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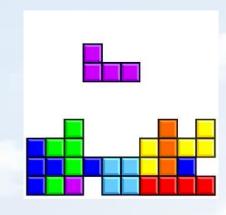
Pivot

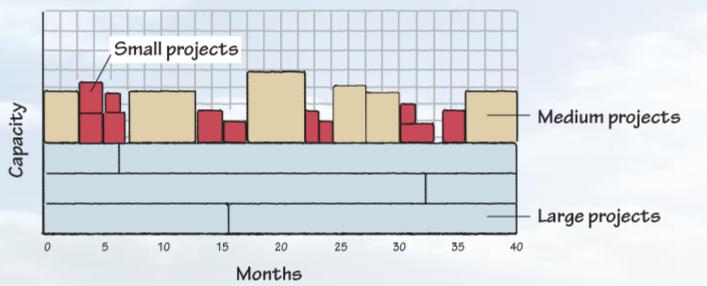


What About LOW Risk Projects or Project Phases?

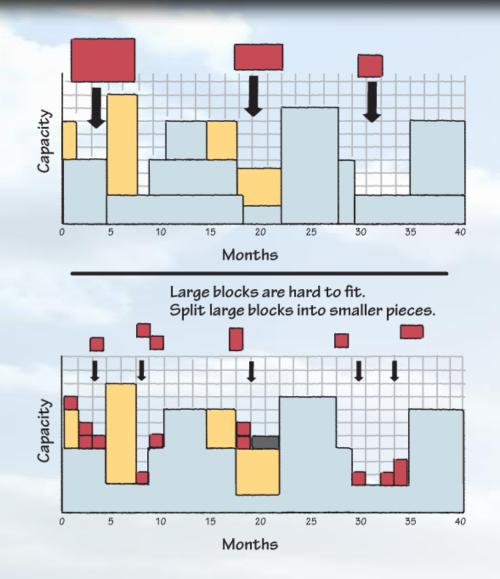
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Managing in Small Pieces - Tetris Principle



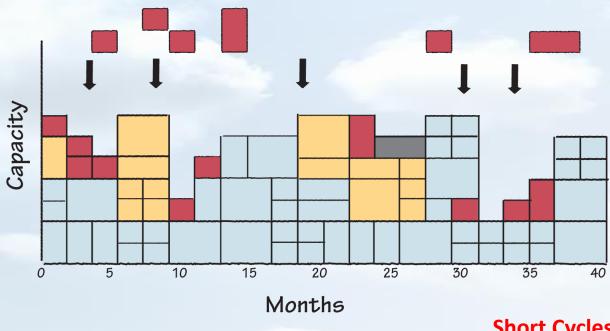


Tetris Principle – Managing in Small Pieces



Tetris Principle

Large blocks are hard to fit. Split large blocks into smaller pieces.



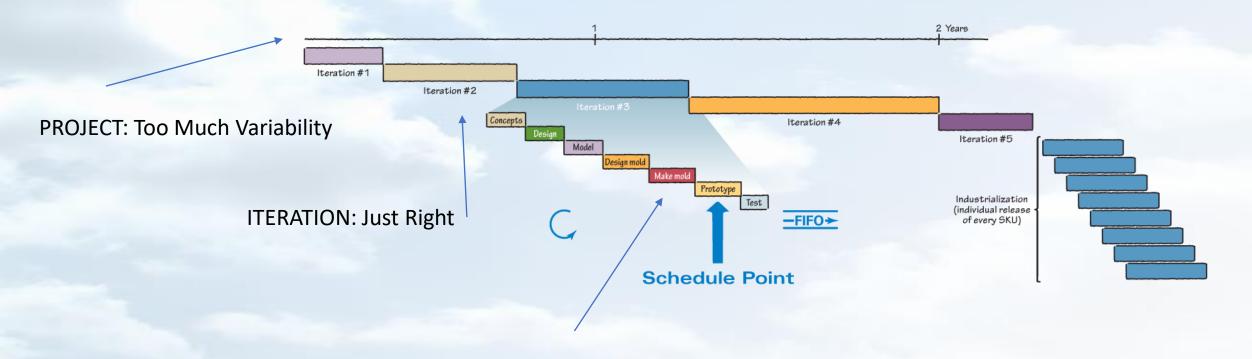
Short Cycles

- Are easier to schedule
- Allow better risk management
- **Create knowledge faster**

Goodyear Iterations



Goodyear Iterations



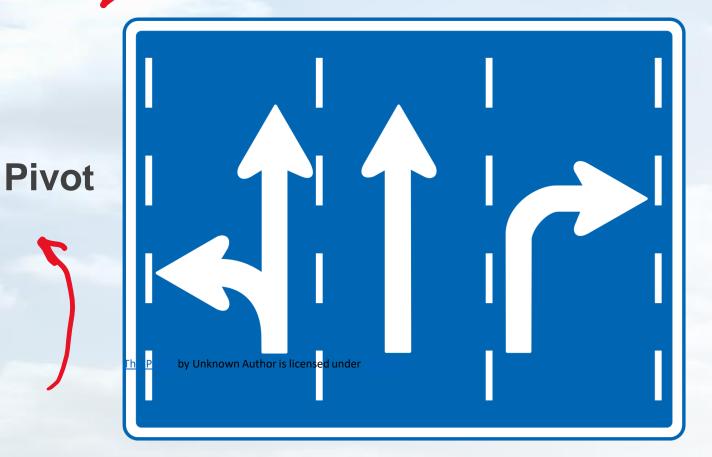
Detailed TASKS: Too much detail

Visual Planning



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Stay the course





10 Second Rule





- Notice fast full picture
- Address immediately
- Crossfunctional
- Problem solve if needed





Operational

- NO Waste
- Financial Management
- Visual Management
- Fast is better than slow Manage for flow and speed
- Late start
- Resource planning
- Concurrent work
- Standards
- Resource utilization

Project Funding

- Traditional
 - Not project specific comes out of a yearly functional budget
 - Discretionary
 - Project funding (military)
- Lean
 - Budget is MANAGED by PM's
 - Allocated in small pieces
 - Yearly budget is based on PROJECTS

Fast Is Better Than Slow

If I had only one thing to focus on, it would be SPEED/Agility (after safety, quality, delivery)

Cycle Time

2009

2010

2011

2007

- Competitive advantage
- Faster Learning, better risk management
 - Better cash flow
 - **Collaterals of efficiency**



Normalized weighted duration 8 00 00

Rebecca Morgan:

"Without a destination in mind, speed is irrelevant."

Speed

- Good PM is #1 on my top 10 list
- Little's law multitasking
- Schedule to capacity
- Visualize resources
- TOC
- Overlapping Activities
- Standard Work

Little's Law

Work in Progress

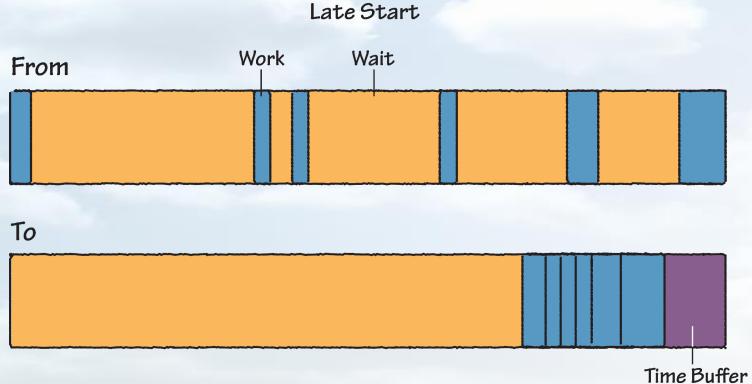
Cycle Time =

Throughput

What is more expensive?

Late Start

Every iteration is started as late as possible but with enough time to finish, including a small buffer to account for variability

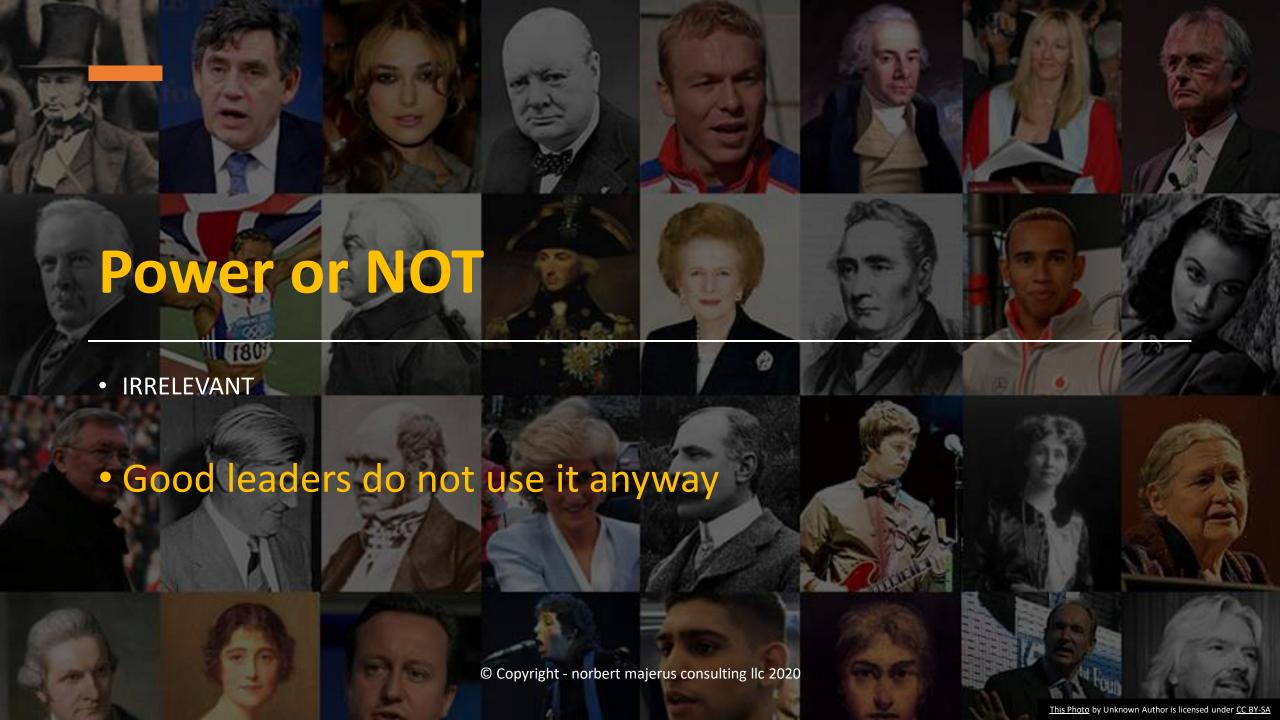


WHY Late Start

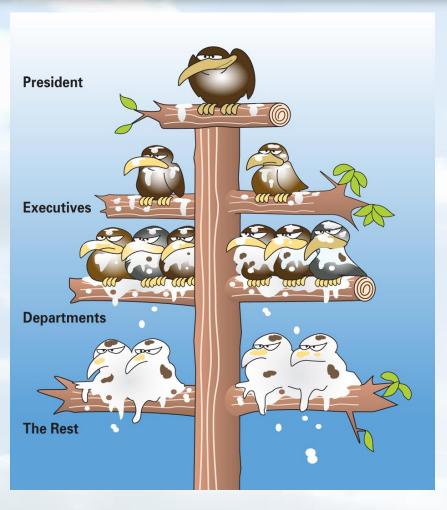
- Know more Latest technology and opportunities
- Keep options open
- Manage changes
- Dealing with engineers (Parkinson Principle)
- Investment / cash flow

Managing People

Happy AND Productive People © Copyright - norbert majerus consulting llc 2020 norbert majerus consulting llc

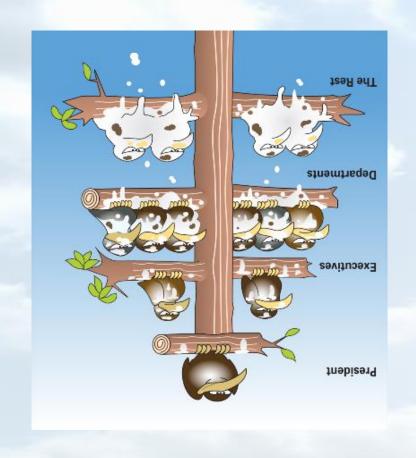


Leadership



*Inspired by unattributed graph

Lean Leadership









Leadership Transformation

Helping People to be successful



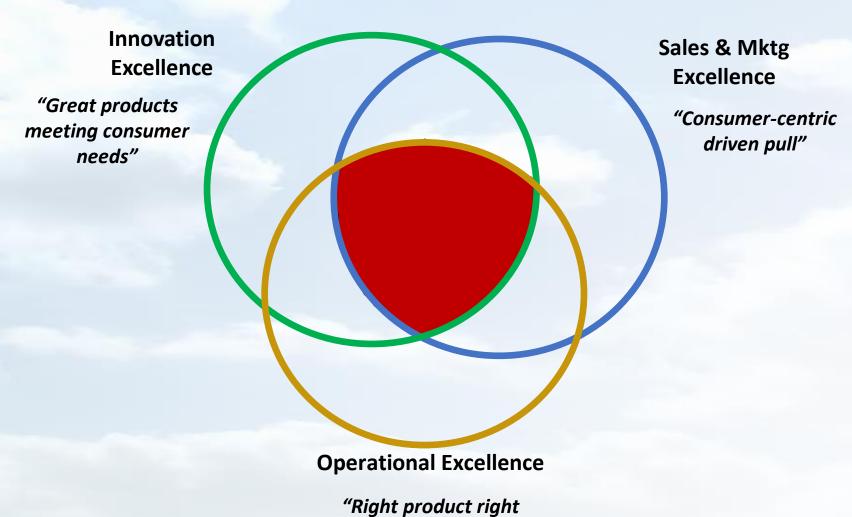
Tell people what to do

Subjects

- Who is the boss
- Collaboration
- Respect
- Humility
- Sponsor
- Getting the best people on the team
- The lean leader
- Dirty Laundry Focus on the process not the people + reflection
- Managing Resistance
- Engaging People
- Roles
- Teams of Empowered Experts
- Self managed Teams



Winning at the Intersections



place, right time and "

Design for manufacturability

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RESPECT

- People come to work to do a good job
- People come to work to do a good job
- If they cannot, look at process, training, qualification, equipment ...
- Leadership helps the people be successful (ALL)
- People respect each other

Hard on the Process, Easy on the People

Evolution of a Servant Leader





We pay you to solve your problems

Responsible?



Here is the solution – go do it



I ask you questions and coach you towards MY solution >> A3 cookie trail



I coach you towards finding your own solution



Let's figure this out together



I agree with your suggestion. You are responsible - keep me informed and I will support you

Humble Coaching

- The leader as a player/coach
- Good coaching includes allowing people to learn through their own experience – allowing them to learn from their mistakes

"Let's run an experiment"

Role of a Leaders in a Lean Organization

- Create the environment, remove obstacles, set direction
- Help the people be successful
- Develop leaders

With Humility

Without Use of Power

A Good Lean Project Manager

- Leads with respect and humility
- Aligns the team behind the agreed upon goals
- Removes roadblocks and helps team members be successful
- Engages/rewards team members
- Develops team members

Becoming a Better (lean) Project Manager

- Make sure your organization is right for PM
- LEARN Project Management
- Follow the applicable principles of Lean PM
- Learn to manage the people
- Practice Continuous Improvement (personal and with the team)
- Use a coach/mentor

Are a consequence of
Good people (including
leadership)
A good process
A good Project Manager

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