

How Artificial Intelligence is Disrupting Project Management Opportunities and Challenges

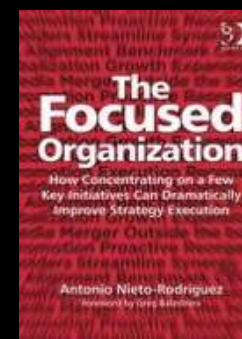
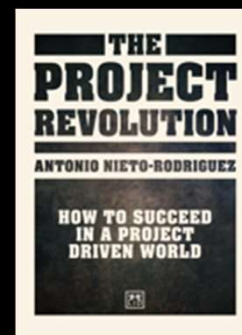
Antonio Nieto-Rodriguez

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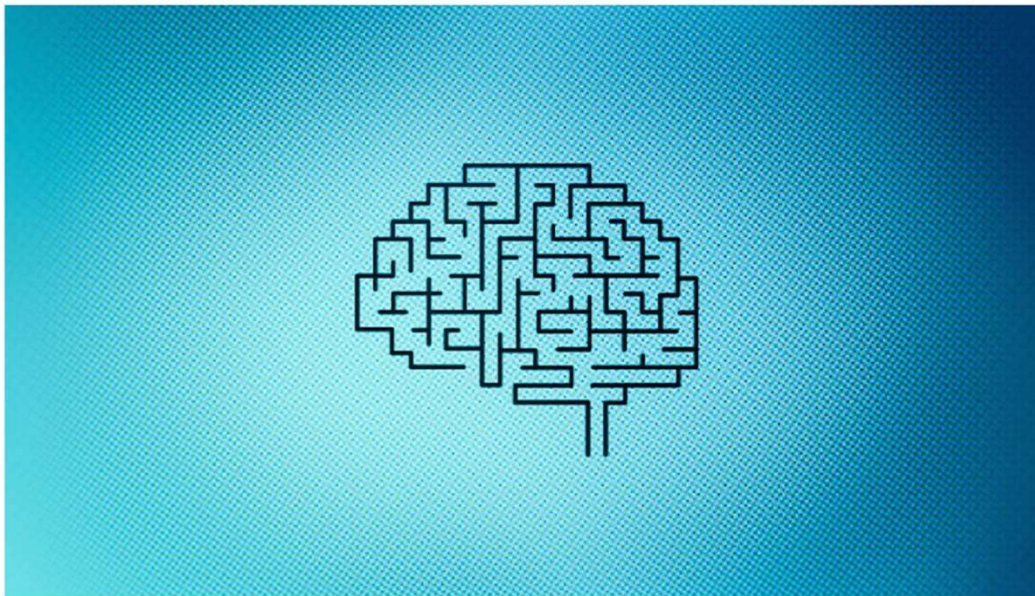


Project Management

How AI Will Transform Project Management

by Antonio Nieto-Rodriguez and Ricardo Viana Vargas

February 02, 2023



Sean Gladwell/Getty Images

The Opportunities at the Intersection of AI, Sustainability, and Project Management

by Antonio Nieto-Rodriguez and Ricardo Viana Vargas

October 27, 2023

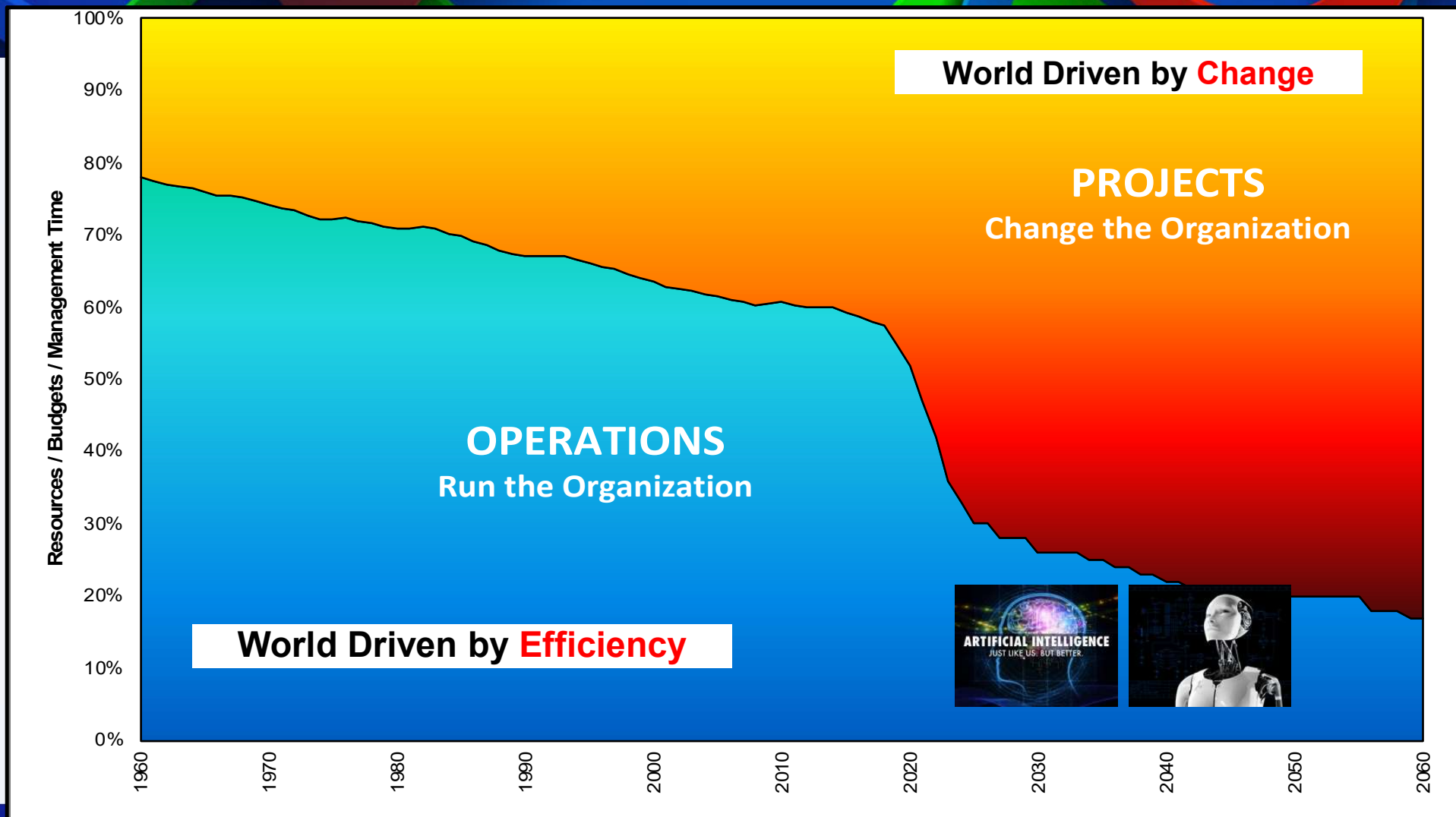


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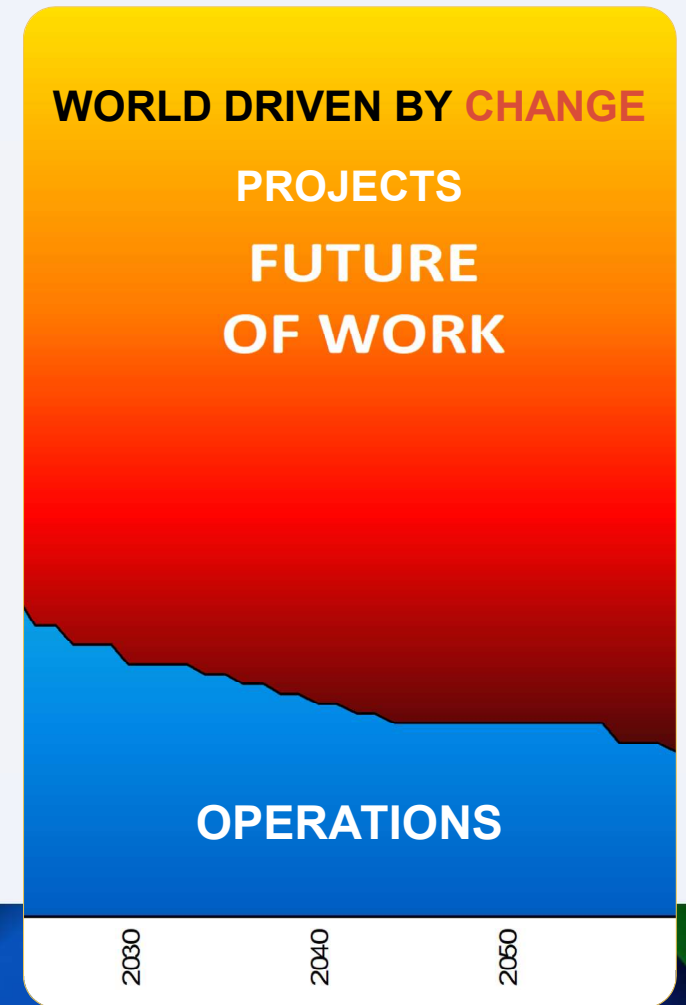
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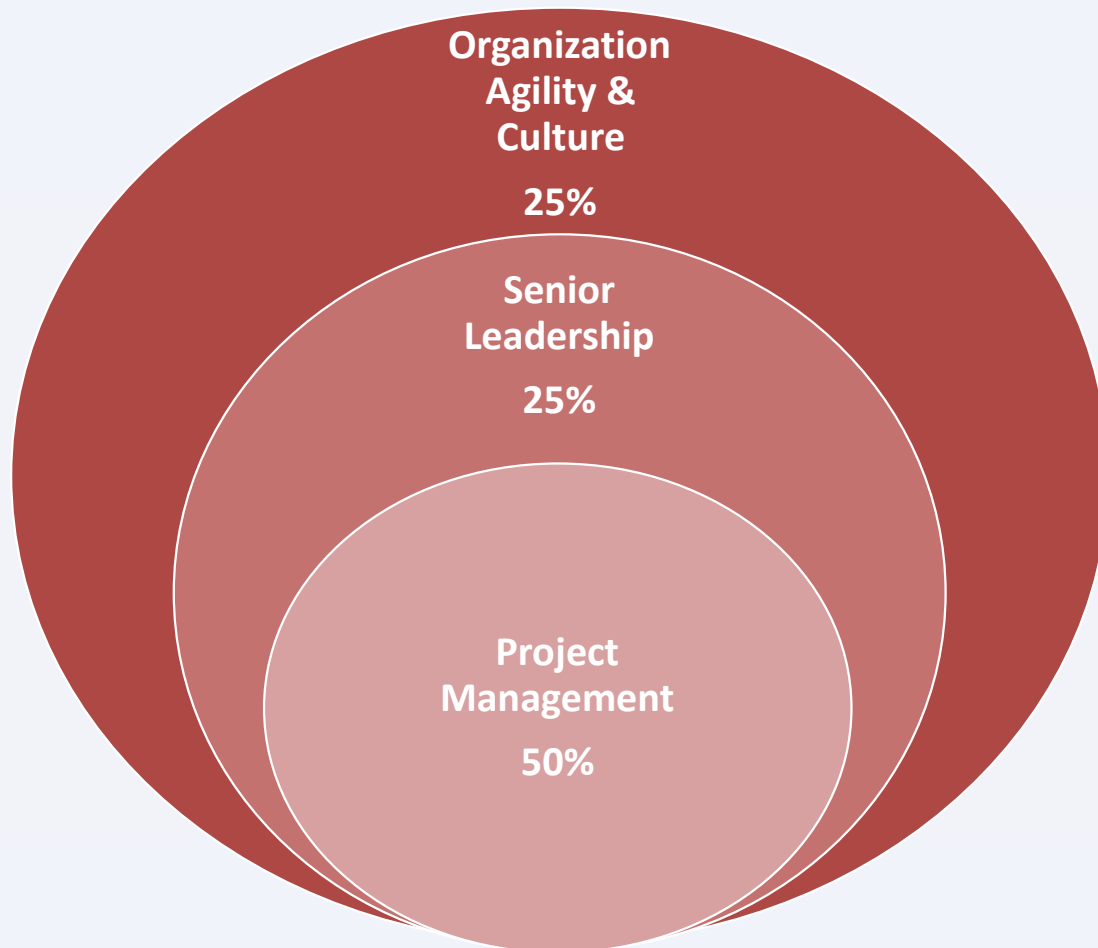
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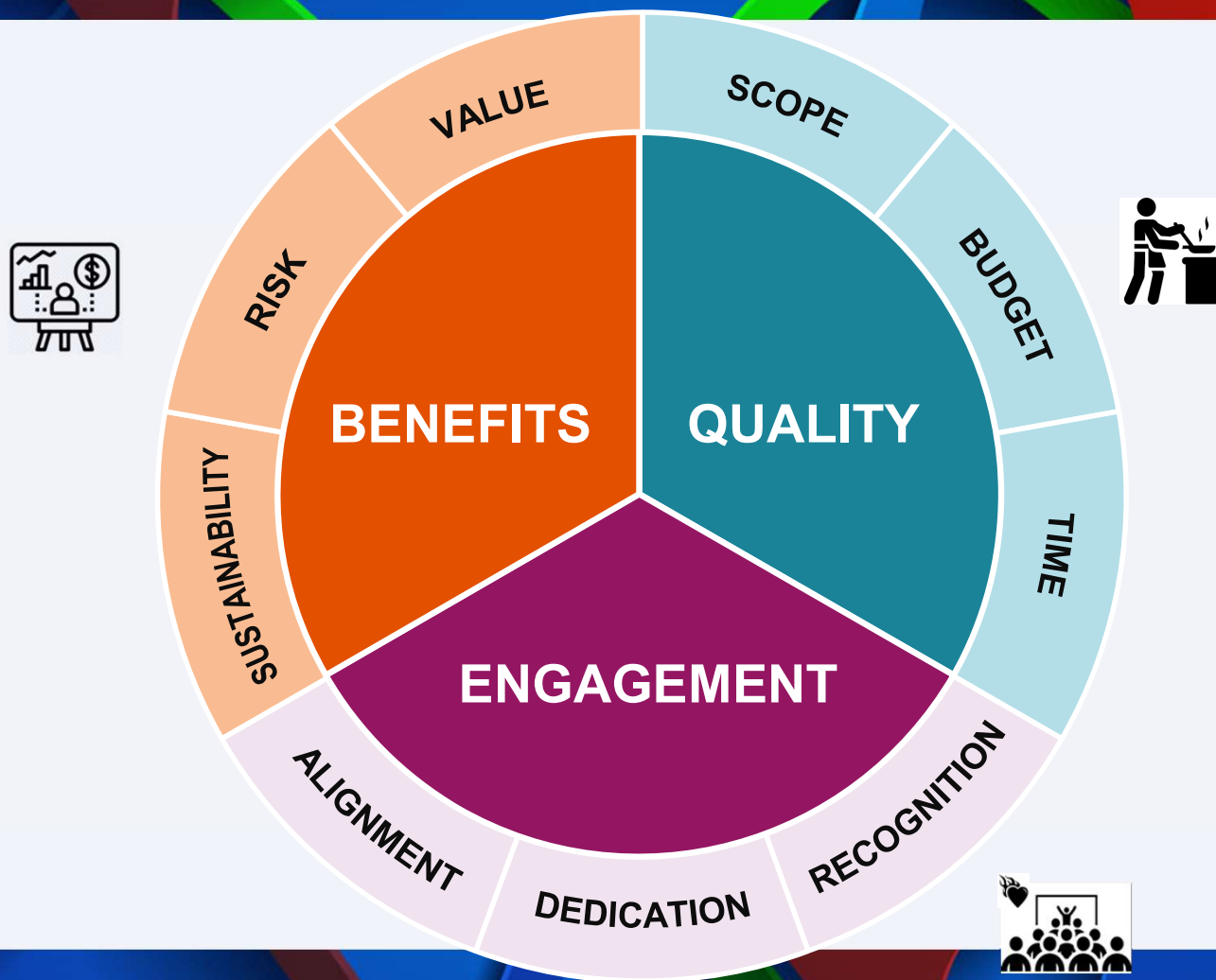


Project Economy - Major Disruptions

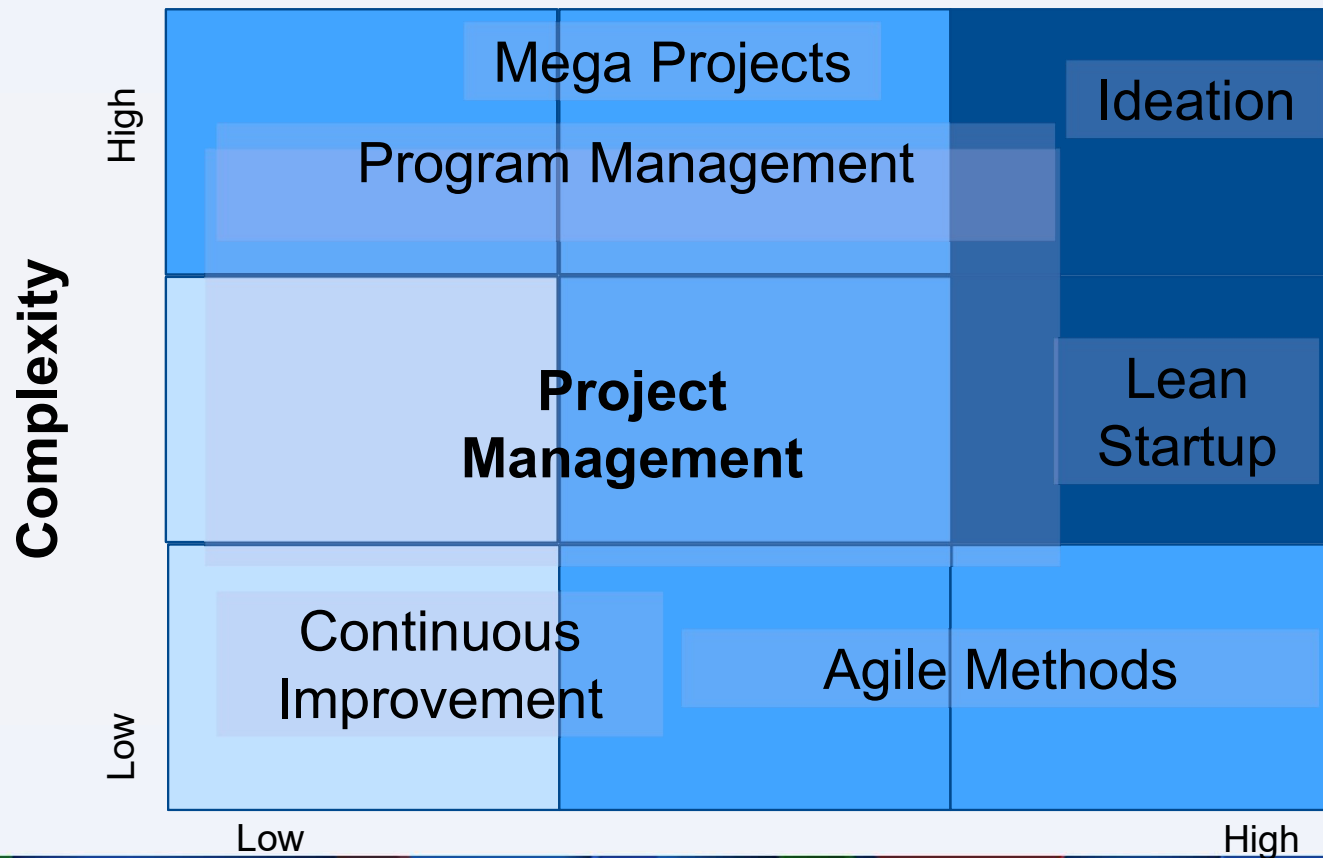
- 1 COO, Job Descriptions, PMO, Resource Allocation → RIP
- 2 Prioritization and Focus on Strategy Implementation is key
- 3 Project Managers need generate Revenues/Value (faster)
- 4 It is not Waterfall or Agile; it is both and more
- 5 Need to develop new competencies, for all







Implementation Toolbox



PROJECT CANVAS

WHY

Rationale & Business Case

What are the expected Benefits?



Purpose & Passion

"Why" are we doing the project?



WHO

Executive Sponsor

Who is accountable for the success of the project?



Governance

Who is responsible for what?



WHAT, HOW & WHEN

Scope

What will the project produce and deliver?



Time

When will the project be completed?



Cost

How much will the project cost?
How many resources do we need ?



Quality

How do we ensure meeting the quality standards?



Risk Management

Have the key risks been identified?
Do we have a plan B?



Procurement

How are we going to manage the external contributors?



Human Resources

What skills do we need?
How are we going to keep the team motivated?



Stakeholders

Are key and impacted parties supporting the project?



Change Management

How are we going to engage the stakeholders and remove barriers to change?



WHERE

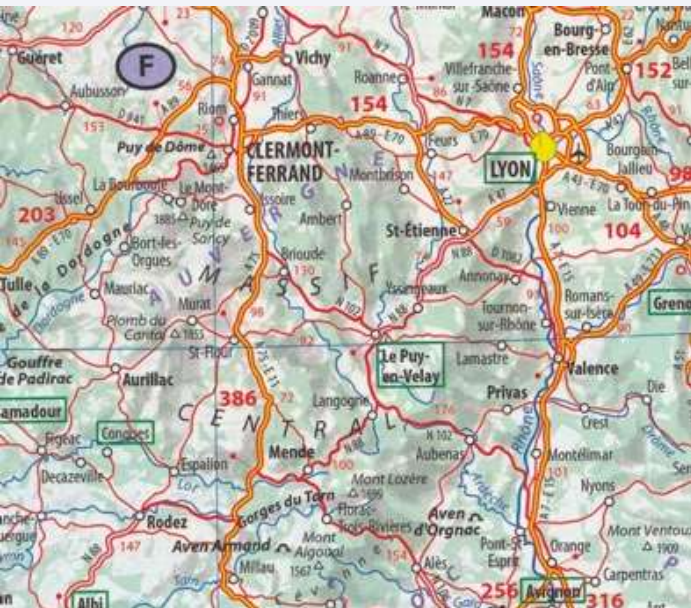
Project Driven Organization

Culture, Structure, Priorities, Competencies

Has our organization and culture been adapted to succeed in a project driven world?



Technology and Project Management



A. MAPS



B. GPS



C. SELF DRIVING

What percentage of the current Project Management and PMO practices will be disrupted by Generative AI?

- a) 20%
- b) 40%
- c) 60%
- d) 80%
- e) 100%





STAMFORD, Conn., March 20, 2019

Gartner Says 80 Percent of Today's Project Management Tasks Will Be Eliminated by 2030 as Artificial Intelligence Takes Over

6

Aspects of Project Management that Will Be Disrupted

6 Aspects of Project Management that Will Be Disrupted

1. Better selection and prioritization
2. Support for the project management office
3. Improved, faster project definition, scoping, and planning
4. Virtual project assistants
5. Advanced testing systems and software
6. A new role for the project manager

1. Better Selection And Prioritization

- **Faster identification** of launch-ready projects that have the right fundamentals in place
- Selection of projects that have **higher chances of success** and delivering the highest benefits
- A **better balance** in the project portfolio and overview of risk in the organization
- **Removal of human biases** from decision-making



Source: hubgets.com

AI Predictor - Examples

PORTFOLIO ASSESSMENT

Project	Probability(%)	Ranking
Isao Kobayashi	98,96	1
Yuusuke Igarashi	98,30	2
CHAN KAH CHEE	97,26	3
Kosam Nyamdela	96,95	4
Peter	96,19	5
Alexandra Hunt	94,88	6
Chinedu Mbonu	93,17	7
Tebogo MATLHARE	91,12	8
Khalid	89,64	9
Harding Leite	83,69	10
Mannon Malo	73,51	11
Anette Smith	67,30	12
Les Howell	31,47	13
Iain Malloy	30,07	14
Sarah Fosgitt	27,86	15
Paul	27,77	16
Diogo Magalhaes	21,14	17
Alicia Ram√zn	7,67	18
mmichaud@ik3m.com	3,21	19
Rick Heck	1,59	20

PROJECT ASSESSMENT

Predictor: Increasing Project Success with AI

ar Antonio Nieto-Rodriguez

Project Name: Customer Service Gpt Bot for the Repair shop of a local Ford Dealer.

Result: **83%** of Project Success

WHY	Rationale & Business Case What are the expected Benefits? 67%	WHO	Executive Sponsor Who is accountable for the success of the project? 50%	Governance Who is responsible for what? 80%
	Purpose & Passion "Why" are we doing the project? 40%			
WHAT, HOW & WHEN	Scope What will the project produce and deliver? 50%		Risk Management Have the key risk been identified? Do we have a plan B? 80%	Human Resources What skills do we need? How are we going to keep the team motivated? 67%
	Time When will the project be completed? 71%			Stakeholders Are key and impacted parties supporting the project? 86%
	Cost How much will the project cost? How many resources do we need? 60%		Procurement How are we going to manage the external contributors? 33%	Change Management How are we going to engage the stakeholders and remove barriers to change? 67%
	Quality How do we ensure meeting the quality standards? 33%			
WHERE	Project Driven Organization: Culture, Structure, Priorities, Competencies Has our organization and culture been adapted to succeed in a project driven world? 100%			

2. Support For The Project Management Office



Source: cio.com

- **Better monitoring of project progress**
- **Anticipate potential problems** and address some simple ones automatically
- **Automated preparation and distribution of project reports**, and gathering of feedback
- Greater sophistication in selecting **the best methodology** for each project
- **Compliance** with processes and policies

3. Improved, Faster Project Definition, Scoping And Planning

- **Improved project scoping** by automating the collection and analysis of user stories
- Tools to **facilitate scheduling processes** and draft detailed plans and resource demands
- **Automated planning** that is produced with less labor will replace today's status reports — often weeks old — with real-time data.



Source: sanet.ws

4. Virtual Project Assistants



PMI Infinity - PMP Exam Simulator

By Project Management Institute 

Explore 175 interactive questions and instantly uncover the intricacies of each response. Deepen your understanding of project management concepts to get you ready for the Project Management Professional (PMP)® certification exam.

How does this simulator work?

Lets begin with a simulated PMP question?

The **AI assistant** learns from past time entries, project planning data, and the context to **tailor interactions** and smartly capture critical project information.

5. Advanced Testing Systems And Software

- Advanced and **automated system testing solutions** for software projects will soon allow early detection of defects and self-correcting processes.
- This will significantly **reduce time spent on cumbersome testing activities**, reduce the number of reworks, and ultimately, deliver easy-to-use and bug-free solutions.



Source: harbinger-systems.com

6. A New Role For The Project Manager



Source: projectmanagement.ie

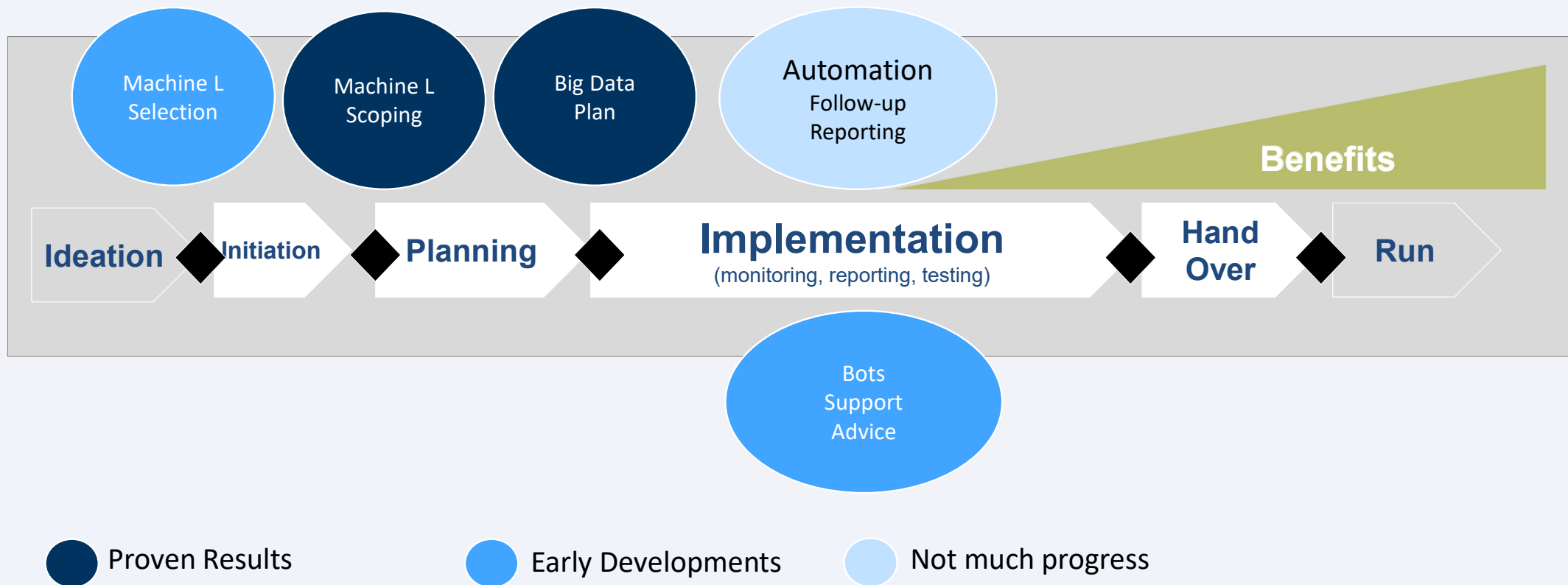
- Project managers **will not be going away**, but they will need to embrace these changes and take advantage of the new technologies
- They must **cultivate strong, soft skills, leadership capabilities**, strategic thinking, and business acumen.
- They must focus on **delivering the expected benefits** and aligning with **stakeholder goals**.
- They will also need a **good understanding of these technologies**.

Which project management area will be most disrupted by AI?

- a) Better selection and prioritization
- b) Support for the project management office
- c) Improved, faster project definition, scoping and planning
- d) Virtual project assistants
- e) Advanced testing systems and software
- f) Other



Areas Where Generative AI will Impact Project Management



10%

80%

10%

YOU



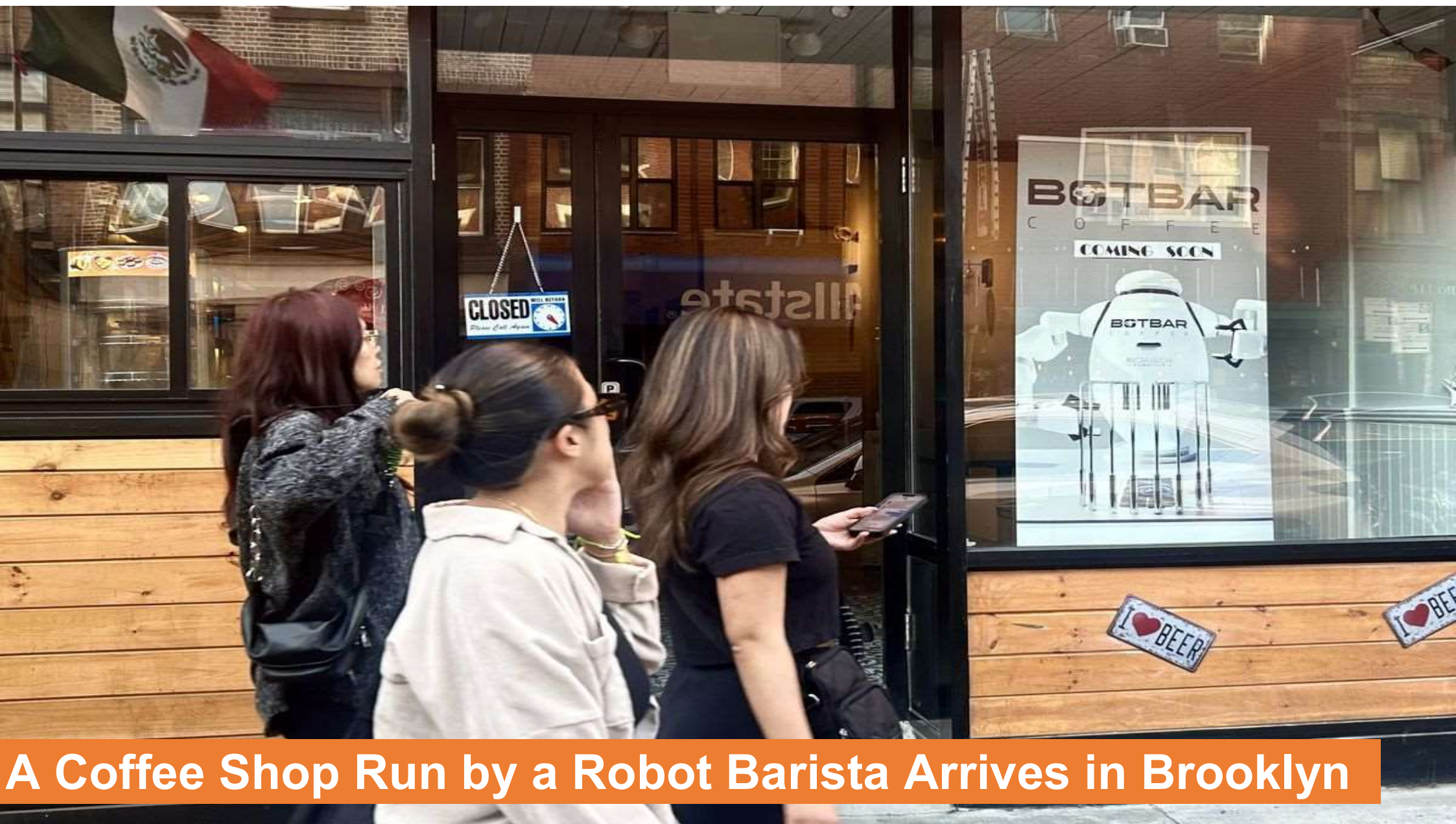
YOU



**THE BEST
WAY
TO PREDICT
THE
FUTURE
IS TO
INVENT IT**

ALAN KAY

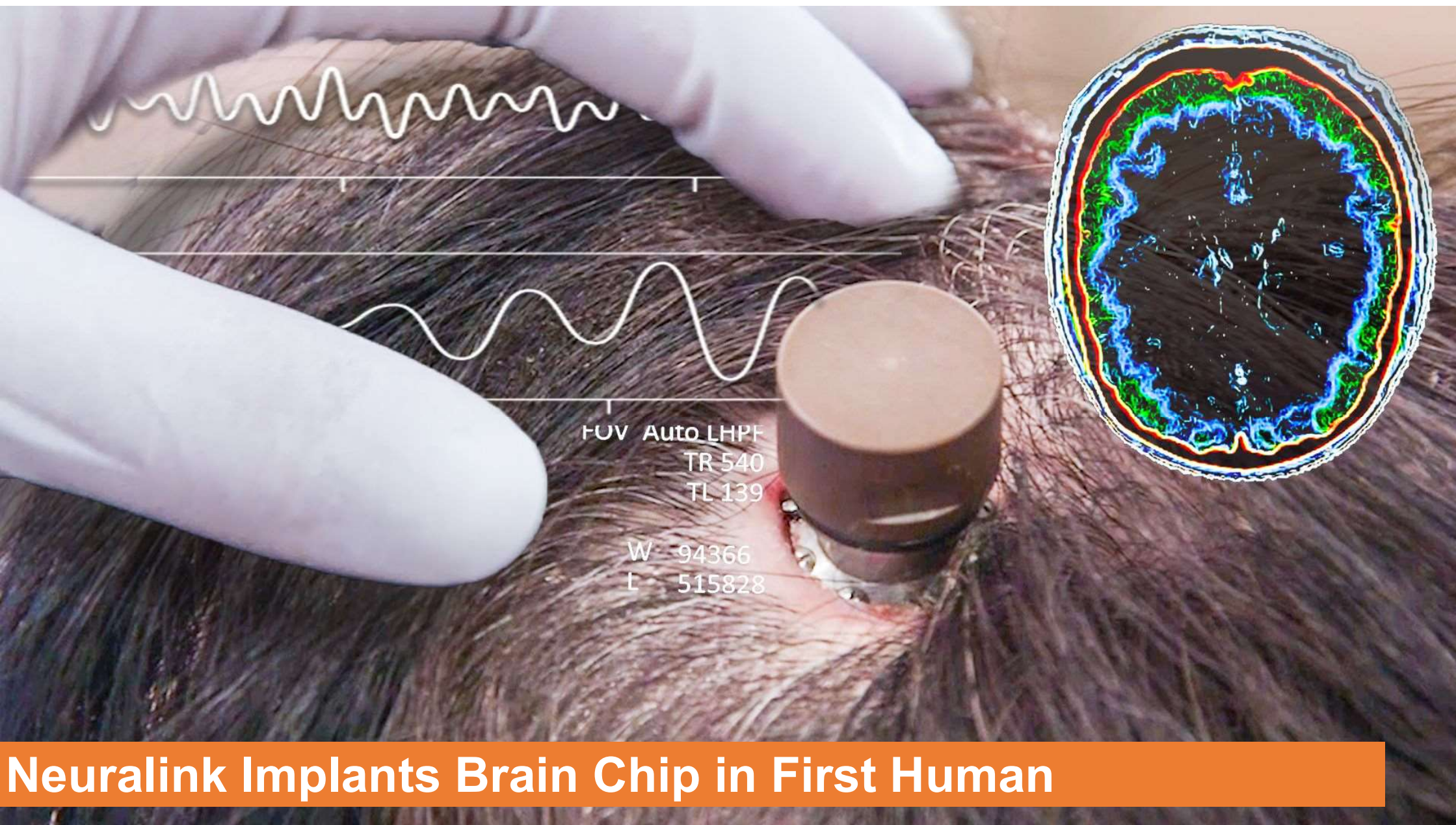
QuotesBook.com



A Coffee Shop Run by a Robot Barista Arrives in Brooklyn



AI Avatars will Join and Facilitate project meetings for You



Neuralink Implants Brain Chip in First Human



AI will Make the Metaverse a More Interactive Space



**KNOWING IS NOT ENOUGH
YOU MUST TAKE ACTION**

IA Project Manager Certification & Research



antonionietorodriguez.com

Antonio Nieto-Rodriguez

The World's Champion in Project Management

If one-day poverty and famine will be eradicated from the surface of the earth, it will be through a Project.

Free Resources

CHAPTER ONE

PROJECT CANVAS

PROJECT MANIFESTO

www.antonionietorodriguez.com

in

Welcome to The Project Economy

"The most significant disruption of the 21st century is not technology, Artificial intelligence or big data, but it is the way organizations and countries will be managed – through Projects."

Antonio Nieto-Rodriguez

World Champion in Project Management

Lead Projects Successfully

I believe that anyone can learn to be a project leader to thrive in the new digital and project-driven economy

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Project Canvas: A Simple Framework to Learn Project Management Fundamentals

The Project Canvas

448 11,772

Rationale and Business Case

Purpose and Passion

Scope

Time

Cost

Quality

Executive Sponsor

Risk Management

Procurement

Change Management

Stakeholders

Project Drives Organization

Project Canvas Practitioner

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by Antonio Nieto-Rodriguez (Author) Format: Kindle Edition

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The one primer you need to launch, lead, and sponsor successful projects.

HBR Project Management Book

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YOU
BOLZIN
MERCİ



GRAZIE PER L'ATTENZIONE!



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Roma, 4 Ottobre 2024