

KEY CAPABILITY #1

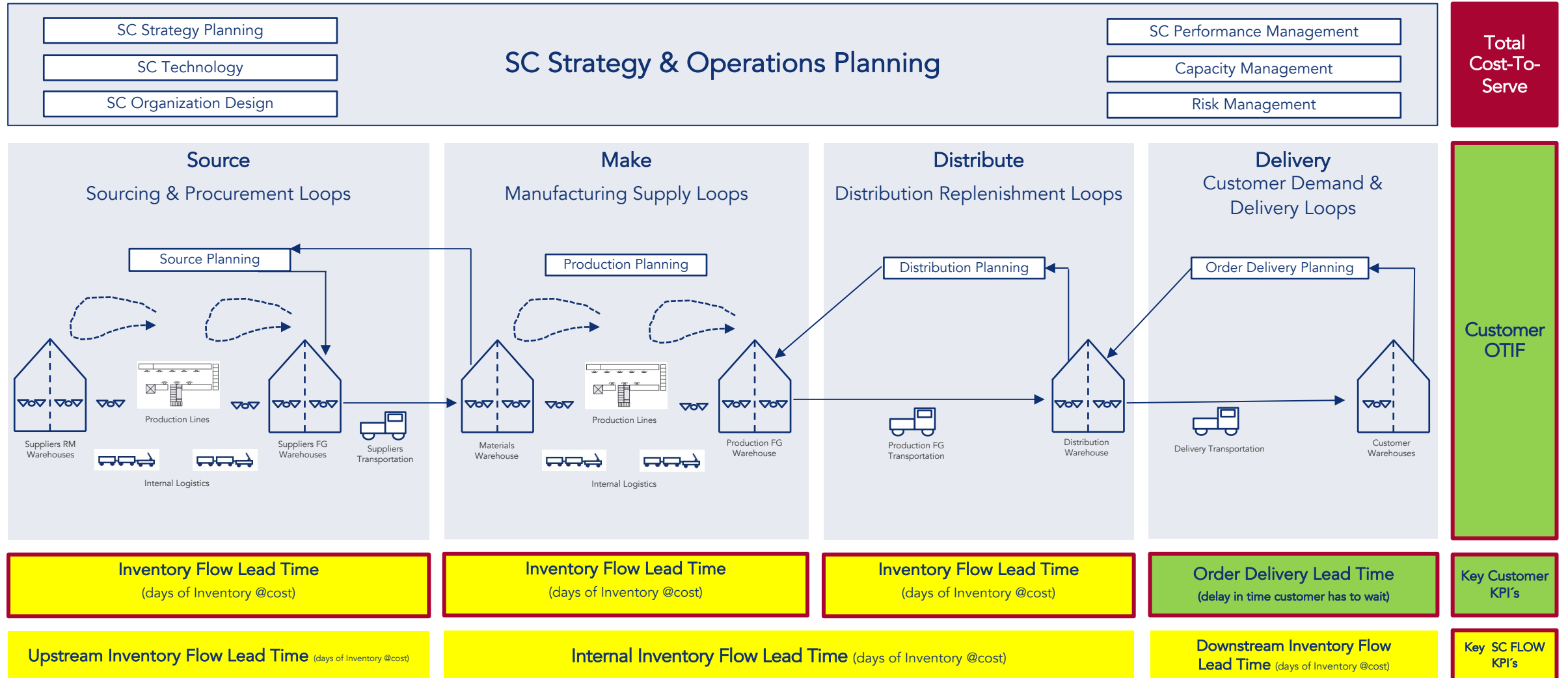
Strategic E2E Mapping of the Supply Chain

- Map the E2E Supply Chain and Learn to See the Logistics Loops
- Develop an E2E Lean Vision
- Prioritize a Roadmap
- Develop a Business Case

Strategic E2E Mapping of the Supply Chain

Important to Focus on the Vital Few Performance Metrics (OTIF, Customer Delivery Time, Inventory Flow Leadtimes & Total Cost-To-Serve)

Learning to See the Logistics Loops (important to fully understand how it works, where are Flow Breakers & other Constraints)



Strategic E2E Mapping of the Supply Chain

2 Phases: Planning + Execution

PHASE I: PROJECT PLANNING

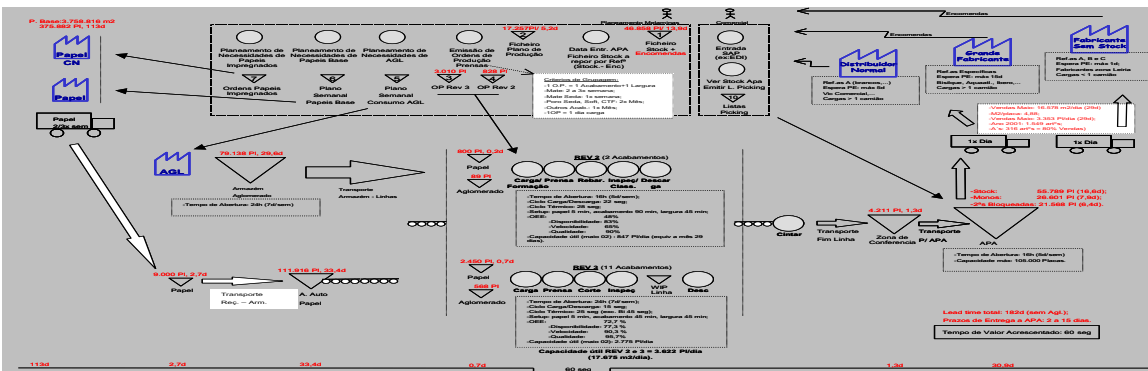
SCOPE & VALUE STREAM LOOP SELECTION

VALUE STREAM ANALYSIS

SELECTION OF SCOPE TO MAP

Impacto das Métricas nos Resultados (Growth)		Qualidade		Produtividade / Custo		Ciclo Entregado / F1 F2 F3		Delivery Estável		Impacto Total nos Resultados	
Tipo Processo	Processo	Score	% Reclamações	YPO	% OPEX Reduzido	% Descontínuos	Tempo de Entrega	% OPEX Reduzido	Tempo de Entrega	Impacto Total nos Resultados	Impacto Total nos Resultados
...

VSM: VALUE STREAM MAPPING, ANALYSIS & DEVELOPING A PULL SYSTEM VISION



CURRENT STATE ANALYSIS

TEAM EDUCATION & TRAINING

FUTURE STATE KAIZEN VISION

PHASE II: PROJECT EXECUTION

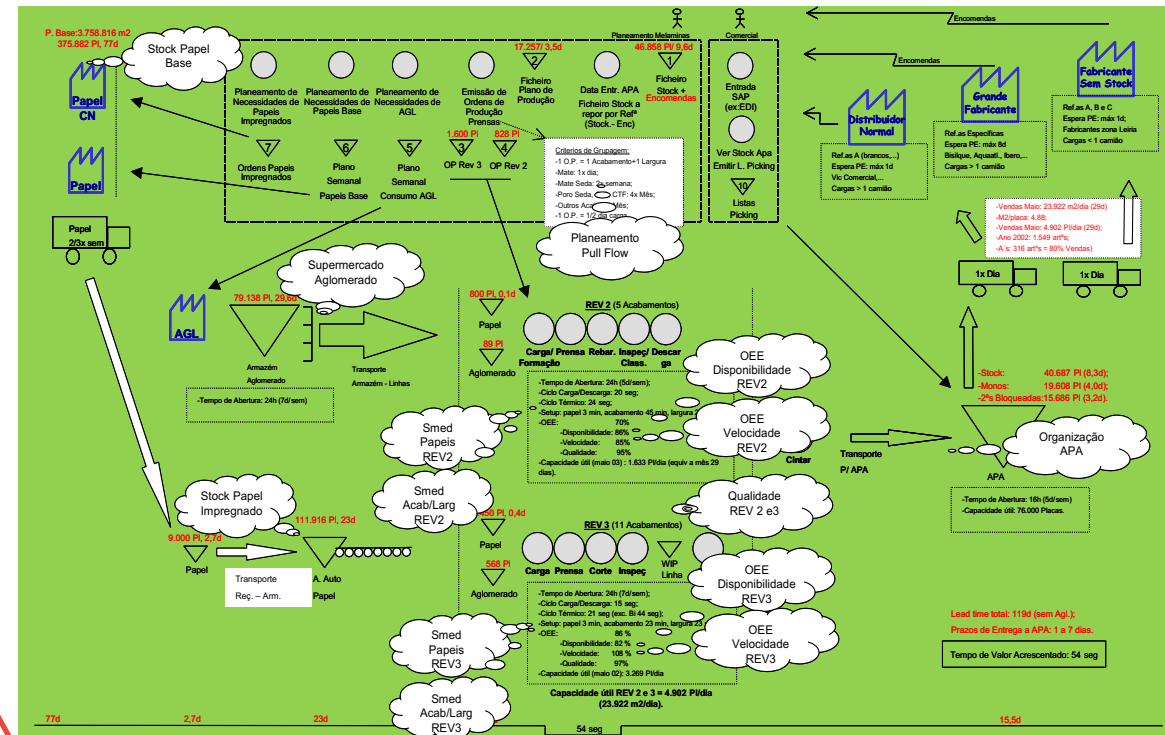
1. Mission Control

2. Kaizen Events

3. Events Closing

4. Value Review

KAIZEN EVENTS NEEDED TO EXECUTE THE VISION



Strategic E2E Mapping of the Supply Chain

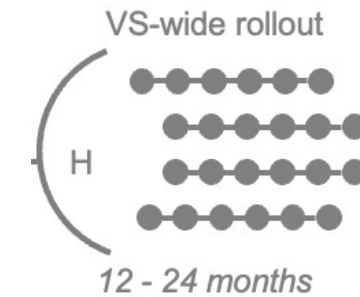
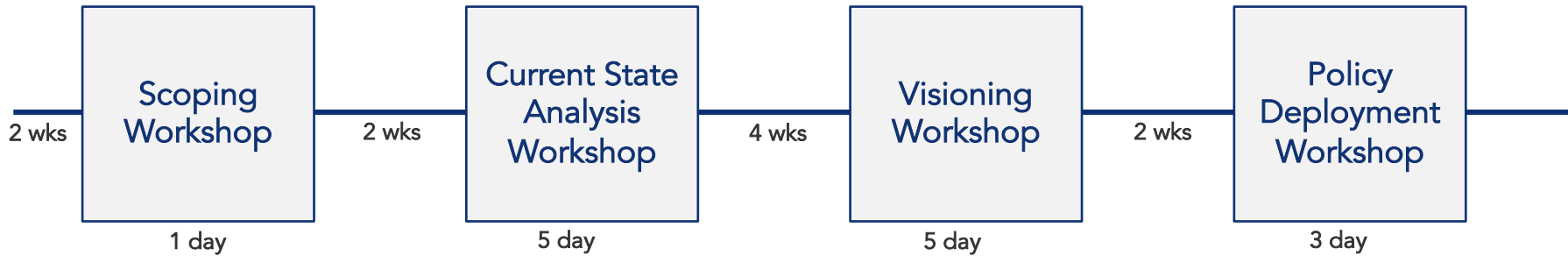
Additional Reading Material !

Implementation Process with 2 Phases

I. PLANNING PHASE (Finishes with Roadmap)

II. IMPLEMENTATION PHASE

All Workshops Include Preparation work with Project Leads + Intensive Days with a Multifunctional Team
Intensive Days include Training (Concepts & Gemba Observation)



- Select the Value Stream Scope
- Identify & Prioritize Business Needs (Growth, Cash Profitability, etc)
- Setup VSM Team for Workshop 2
- Translate prioritized Needs into key Value Stream Requirements (metrics & targets)
- Plan Workshop 2

- Product Portfolio & Demand Segmentation (Volume / Variability)
- Macro Mapping of the Supply Chain
- Quantification of Main KPI's related to Leadtime, OTIF, Inventory & Cost
- Detailed Deep Dive Mapping of Specific SC Loops (Order to Delivery, Warehouse Replenishment, Etc...)
- Quantification of All Improvement Opportunities

- Complete VSM Deep Dives
- Design Ideal State
- Aspirational Goals set to Translate the end state ambition
- Identify Future State Short & Long Term Improvements
- Document needed Kaizen Events with A3 Initiation Plans
- Define Implementation Roadmap for 12 to 24 months

- **Invite Top Management Stakeholders from BU, Region, ISC & Key Functions**
- Review Current State Analysis
- Review Vision of Ideal State
- Review Implementation Roadmap
- **Develop Business Case with TTI's: Targets To Improve and Investment**
- **Decide Implementation Owners & Governance Process**

- E2E Value Stream Improvement Policy Execution
- Organized in 3 Month Sprints
- Each 3 Month Sprints has a certain number of Kaizen Events
- Steering Meeting Every Month at 2 Levels:
 - Area Project Review
 - Program Governance
- Use of Obeya Rooms for Project management (Mission Control)
- Project Retrospectives every 3 Months

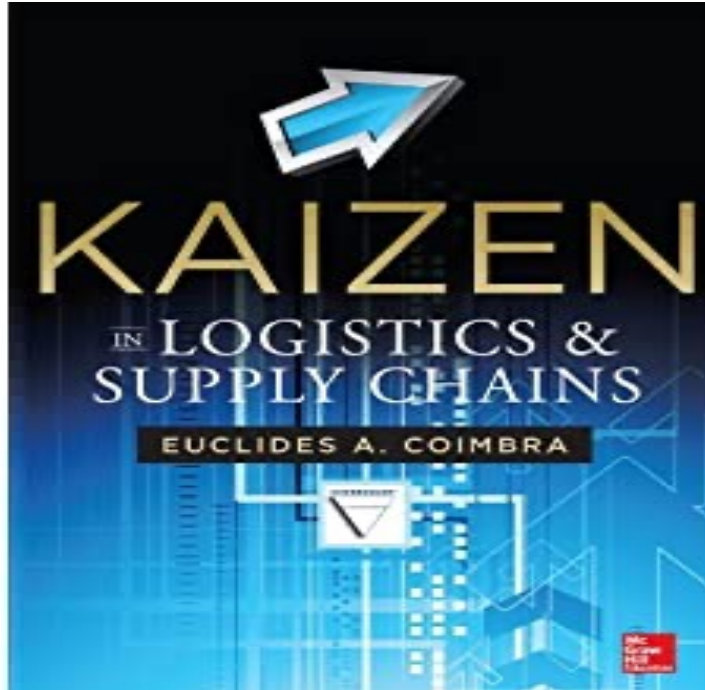
CONCLUSIONS & NEXT STEPS

How can I Learn More

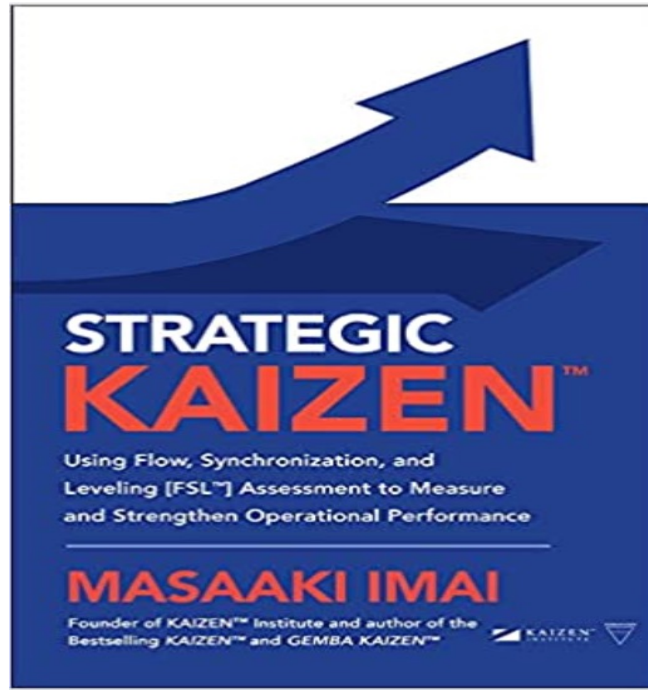
- Reading Materials
- Learning by Doing - Select & Start a **Pilot** Strategic E2E Value Stream Mapping
- Get Support from Kaizen Institute (or another Sensei)
- Make a Performance Based Partnership with the Sensei
- For more information contact ecoimbra@kaizen.com

How can I Learn More

Learn all the Details with Kaizen Books

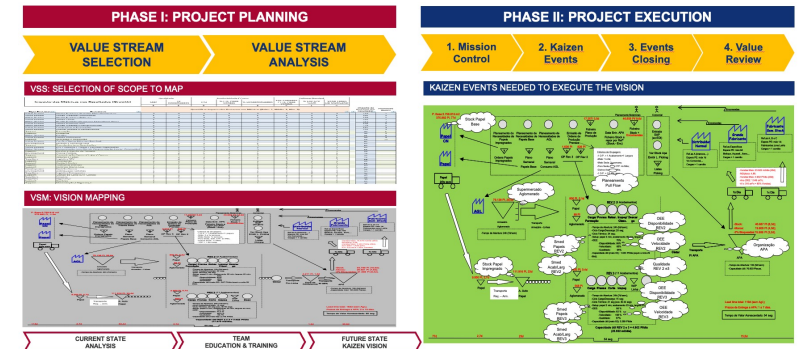


The Global Reference Book in Supply Chain Transformation



The Last Book about Strategic Assessment of Supply Chains

- Reading Materials
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WANT TO LEARN MORE: ORDER THIS BOOKS...

How can I Learn More

Develop a Successful Pilot Project (to serve as a Beacon)

CASE	COMPANY	PROBLEM	SOLUTION	RESULTS
Plant Design		<ul style="list-style-type: none"> Old line with a lot of material and operator movements 	<ul style="list-style-type: none"> New Layout and line design with 50% less space Mizusumashi Standard Work - 20% increase in Productivity 	<ul style="list-style-type: none"> Quantifiable benefits 3,300,000 Euros / year. Total investment: 1,125,000 Euros. R.O.I.: 4 months. State-of-the-art factory design
Flow Improvement		<ul style="list-style-type: none"> Line Design not Flexible & Isolated Islands Low Frequency Logistics Central Push Planning System 	<ul style="list-style-type: none"> One Piece Flow Shojinka Lines Creation of Flow in Internal Logistics Pull Planning System with Levelling 	<ul style="list-style-type: none"> -52% internal defects rate 36% increase in Productivity -40% Total Inventory Coverage
Factory & Planning Design		<ul style="list-style-type: none"> Functional Layout High lead-time Management difficulties 	<ul style="list-style-type: none"> Flow Layout Stock Reduction Standard Work SMED 	<ul style="list-style-type: none"> 50% area reduction 40% productivity increase 89% lead-time reduction 38% Setup Time Reduction 8% Service-level improvement
Factory & Planning Design		<ul style="list-style-type: none"> Low Productivity Push Supply High model changeover time 	<ul style="list-style-type: none"> U shape line with frontal supply Pre-assemblies near point of use Pull Supply (With levelling box) Setup Time = 0 Standard Work 	<ul style="list-style-type: none"> 26% productivity increase 52% area reduction 21% to 0% ergonomics' critical stations



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Our Brand Promise

Authentic

We introduced the KAIZEN™ methodology to the world in 1985

Practical

We make our customers experts in their Gemba

Holistic

Our methods touch everyone in the organisation working for the same goal and sharing the same KAIZEN™ Spirit

Worldwide

Our expertise, from helping the world's leading organisations, can be applied to any situation

WE HELP LEADERS TO

ACHIEVE DREAMS OF PERFORMANCE IMPROVEMENT

IMPLEMENT CONTINUOUS IMPROVEMENT CULTURES

LEARNING BY DOING WITH A SUCCESSFUL PILOT PROJECT

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