QAI for Digital Society (framework)

Digital is everywhere and we live in a era of connected communities, societies and welfare and viewers opinions, sharing experiences etc

QAI can provide a technology advantage for various strategic and tactical decision making, getting project work automated, engineering systems and offering various ways to solve some community problems.

For example community planning, city planning, city living standards, city assets management, inventory management, safety, 911 management, disaster mgmt, traffic and congestion management, pollution mgmt, perishable goods supply chain mgt, waste mgmt, stray animal and litter mgmt, beggar problems, community library books inventory, assisted kiosks and robots for various assistance like requesting help, saving life, preventing terror activities, water, electricity, ration related questions, request for money etc

Various fleet of autonomous systems like Humanoids, Drones, Medical kit and emergency Robo Doctors, Robo Police, Mini transport vehicle, Kiosks, Apps for New comers, visitors, tourist guide etc. All these are managed by QAI Datacenter that hosts CPS fleet of autonomous systems.

Various resident services, like food points, playground, stadium, various events, sports, news papers, etc can be integrated with Robots that are deployed across streets an can assist humans in a dialogue instead of residents looking for help online, browsing that can lead to fraud, digital arrest, etc. Future payments can be done using secure bio chips, that can be read by Trusted Robots placed in shops and also in safe payment zones. Transit routes and plans can be availed from Robots help that allows the current context, time and location to be assessed and the required route is auto generated for the traveler.

Various in transit facilities, food water can be availed by Robot dispensers and human inspected kiosks. Ready to eat and Robo cook based kitchens can be made available

In general QAI can speed up various processes and CPS can connect the physical world to the computational virtual world and thus society can be made more reliable, efficient, lesser crime and better economy with various helps to assist to make a better living, self host shops and sell standard goods and services that are assessed by the standard costing method and fair trade policies. Residents can rent homes, shift without hassles, relocate migrate or come closer to friends and community members who have interest in their work or relation.

All the cities basic needs are digitalized to meet the QAI CPS systems needs, allowing residents to make best use of these systems and make a living that is safe and livable

Details

QAI Digital Society Framework

1. Introduction

We live in a **hyper-connected era** where communities, societies, and individuals continuously share information, experiences, and opinions. A Digital Society goes beyond connectivity — it integrates **welfare**, **safety**, **governance**, **and economy** into a seamless fabric.

Quantum AI (QAI), when combined with Cyber-Physical Systems (CPS), offers a powerful foundation to automate services, optimize resources, and create resilient, fair, and efficient societies.

2. Integration with Bhadale IT Hub Frameworks

- Org Frame work → Defines roles of government, industry, and citizens in QAI-enabled society.
- **16 Ops Frame work** → Provides the operational backbone (CloudOps, DevOps, MLOps, ResearchOps, FederalOps, SecOps, RoboOps, etc.) to run QAI services reliably.
- **Business Transformation Frame work** → Ensures smooth migration from traditional services to QAI-powered CPS, managing data, compliance, and new business models.

3. Pillars of the QAI Digital Society

1. QAI Governance & Planning

- o Community planning, city planning, and asset management.
- o Transparent policies through QAI decision-support engines.

2. QAI Safety & Security

- o 911 emergency response, disaster management, terrorism prevention.
- o Robo Police, Robo Doctors, drones, humanoids for public safety.

3. QAI Infrastructure & Mobility

- o Traffic and congestion management, transit route optimization.
- o Autonomous mini-transport, secure payments via biochips.

4. QAI Economy & Services

- o Fair trade via standard costing.
- o Digitalized shops, kiosks, and self-hosted small businesses.
- o Universal access to food, water, energy, ration, and shelter.

5. QAI Social Welfare

- o Managing pollution, waste, stray animals, and beggar problems.
- o Access to libraries, sports, playgrounds, cultural events.
- o Assisted kiosks and robots for community services.

6. QAI Living & Migration

- o Renting homes, relocation, and migration supported digitally.
- o Smart matching of residents to communities with shared interests.

4. Enabling Technologies

- **QAI Datacenters** → Host fleets of CPS, robots, drones, and apps.
- QAI OS → Orchestrates city services across digital, physical, and virtual layers.
- **QAI Robotics Fleet** → Humanoids, drones, Robo Doctors, Robo Police, kiosks, delivery vehicles.
- Trusted Payments & ID → Biochips, secure robotic payment zones, QAI blockchain.

5. Resident & Visitor Services

- Robotic Assistants on streets for queries, help, directions.
- Tourist Apps & Kiosks for newcomers and visitors.
- Robot Dispensers & Kitchens for food, water, and ready-to-eat meals.
- **Dialogue-based Help** → Instead of online browsing (fraud-prone), robots/kiosks provide trustworthy guidance.

6. Benefits

- Faster decision-making and automation of city/community services.
- Reduction in crime, fraud, and corruption via trusted QAI services.
- Improved economy with fair trade and transparent pricing.
- Efficient resource usage → energy, water, food, housing.
- Better quality of life \rightarrow safe, livable, inclusive society.

7. Roadmap

- **Phase 1**: Pilot city services (traffic, waste, safety).
- Phase 2: Full integration of resident services (housing, economy, welfare).
- Phase 3: Global-scale QAI Digital Society network (multi-city, multi-nation).

Amazing brief — here's a tight, standards-mapped version of your **QAI for Digital Society** that plugs into your org + 16 Ops + Business Transformation frameworks, and bakes in "robots-first, internet-second" service delivery.

1) Governance overlay: map QAI DS to global standards

• AI governance backbone

- Stand up an AI Management System (AIMS) for your QAI Datacenter using ISO/IEC 42001 (policies, roles, lifecycle, supplier oversight). Pair with ISO/IEC 23894 for risk management and NIST AI RMF 1.0 for profiles and risk controls per use case (safety, explainability, robustness). ISO+1NIST Publications
- Ethical guardrails: align with OECD AI Principles, UNESCO AI Ethics Recommendation, and the IEEE 7000 series (ethically aligned design, transparency, bias, consent) for procurement and design review gates. Consider IEEE CertifAIEd for product-level ethics assessment. OECD AIUNESCOIEEE Standards Association+1

• Smart city & societal alignment

o Frame outcomes against **Society 5.0** (human-centric, cyber-physical public value). Track city KPIs with **ISO 37120/37122**; use **ISO 37101** to wire sustainability into city programs. Map to **UN SDGs** at initiative level. 内閣府ホームページ NIST PagesNIST Computer Security Resource Centeraacmena.comISO

2) Identity, verification & age proof (robots + kiosks + apps)

Credential standards

Use W3C Verifiable Credentials 2.0 for resident IDs, residency proofs, permits, and age attestations; anchor identifiers with W3C DIDs. Support ISO/IEC 18013-5 mDL for government-issued mobile IDs and ICAO Doc 9303 ePassports for visitors.
 W3C+2W3C+2ISOICAO

Assurance & flows

- o Follow **NIST SP 800-63** (IAL/AAL/FAL) to tier proofing, MFA, and federation across kiosks/robots; use **WebAuthn/FIDO2** for phishing-resistant biometrics on devices and trusted robots. <u>Sustainable Development Goals</u>
- Privacy & selective disclosure

o VCs with minimal data (e.g., "Over-18" rather than DOB), revocation lists, and offline verifications for field robots per 18013-5. ISO

3) QAI Cloud & CPS security baseline

Cloud/data controls

Base the QAI Cloud on ISO/IEC 27001 with cloud overlays ISO/IEC 27017 (cloud security) & 27018 (PII in public cloud);
 complement with NIST SP 800-53 r5 control families for city-owned workloads. Use Zero Trust patterns (NIST 800-207) between datacenter, edge robots, and kiosks. ISO+1NIST Computer Security Resource Center

• Post-quantum readiness (long-lived IDs/records)

o Start crypto-agility: inventory algorithms and plan migration towards **NIST's PQC standards** (FIPS drafts ML-KEM/ML-DSA) for identity & credentialing pipelines as they finalize. <u>NISTNIST Computer Security Resource Center</u>

OT/robotics safety

For city CPS (traffic, utilities, waste): secure by IEC 62443; for robots: ISO 10218, ISO/TS 15066 (cobots), and ISO 13482 (personal care/service robots). For drones: ASTM F3411 (UTM/Remote ID) + local aviation rules. ISOSustainable Development GoalsW3CFIDO Alliance

4) Municipal subsystems → standards-mapped capability blocks

City portfolio area	QAI DS subsystem (examples)	Primary standards to anchor
911/safety & disaster	AI-assisted triage; incident routing; drone reconnaissance;	ISO/IEC 42001 + NIST AI RMF; IEC 62443 for dispatch
mgmt	evac guidance kiosks	ICS; UAV: ASTM F3411
Traffic & congestion	Edge RL forecasting; signal optimization; robot traffic	ISO 37122 KPIs; IEC 62443 for signal controllers; IEEE
Traine & congestion	wardens	7000 ethics review
Pollution & environment	Sensor nets; anomaly detection; emissions predictions	ISO 37120/37122; ISO/IEC 23894 risk; OECD AI Principles
Waste & sanitation	Route optimization; contamination detection; bin-level telemetry	ISO 37120; IEC 62443; 27017/27018 for cloud data
City assets & inventory	Digital twins; predictive maintenance; ledgered custody	ISO 55000 (asset mgmt, optional), 27001/27017; NIST 800-53 AU/CM families
Public health & robo-med kits	Symptom kiosks; AED/med-kit robots; triage chat	ISO 13482 safety; AI RMF harm analysis; 27018 for PII
Libraries & culture	VC-based membership; robot librarians; smart inventory	W3C VC/DID; ISO 27701 (optional privacy extension)
Transit & wayfinding	Context-aware route planning via street robots	NIST 800-63 for auth; WebAuthn; Society 5.0 principles
Perishable supply chains	Cold-chain tracking; fairness pricing dashboards	ISO 22000 (if food ops); ISO 37101/SDGs alignment
Stray animals & civic	Vision detection; humane response orchestration	IEEE 7000 (ethics), AI RMF bias/false-positive controls

nuisances

(Standards refs in previous sections.)

5) "Robots-first, internet-second" service flow (resident UX)

- 1. **Discover**: Street robots/kiosks are the first touchpoint for FAQs, forms, payments, and navigation. Offline-capable VC verification (mDL/ePassport/VC) avoids phishing or search scams. ISOW3C
- 2. **Transact**: Payments through **trusted payment zones** and shop robots using secure device biometrics (WebAuthn) and privacy-preserving age/eligibility VCs. Sustainable Development Goals
- 3. **Escalate**: If unresolved, hand-off to human agents or official portals—robots produce a verifiable case bundle (logs, consent, decision rationale per ISO 42001). <u>ISO</u>

6) Ownership & contractor model (city-owned, you operate)

- RACI + controls
 - o City authority: Data controller; policy owner for AIMS and privacy.
 - Your startup (+ partners): Data processors; AIMS operators; maintain robots/kiosks; uphold 27017/27018 addenda in contracts; use
 SP 800-53 overlays for each subsystem. ISO+1NIST Computer Security Resource Center
- Supplier governance
 - Bake IEEE 7000 checkpoints and ISO 23894 risk reviews into procurement SOWs; require model cards, data sheets, and red-team reports for each AI service. IEEE Standards AssociationISO
- Service acceptance
 - Pilot under ISO 37122 indicators (e.g., average 911 response, congestion, waste collection efficiency) with SDG-linked targets for benefits realization. NIST Computer Security Resource Center ISO

7) Security & compliance artifacts to operationalize (16 Ops hooks)

- **Policy stack**: AIMS manual (ISO 42001), AI risk register (ISO 23894/NIST AI RMF), Model lifecycle SOPs, Data governance (27001/27018), Zero-Trust reference architecture (800-207), PQC migration plan. <u>ISO+2ISO+2NIST Publications</u>
- **Assurance**: VC/DID trust registry; credential revocation service; key management HSM with PQC roadmap; robot safety certification logs (ISO 10218/13482). W3C+1S ustainable Development Goals
- Monitoring: City KPI dashboards (ISO 37120/22), ethics & bias scorecards (IEEE 7000), audit trails (800-53 AU family). NIST PagesNIST Computer Security Resource Center+1IEEE Standards Association

8) Quick tech patterns you can ship now

- Resident identity: mDL + VC wallet + DID; kiosks verify offline as per 18013-5; tourists use ePassport (Doc 9303). <u>ISOW3CICAO</u>
- Data plane: 27017 shared-responsibility matrix for each subsystem; 27018 controls for any PII in cloud NLP/vision pipelines. ISO+1
- Safety-critical AI: NIST AI RMF "Profile" per domain (911, traffic, health); pre-deployment red teaming + continuous monitoring. NIST

QAI Digital Society Framework (Expanded Section)

1. Framework Mapping Table

Startup Framework	Mapped External Standards	Inputs (I)	Outputs (O)	Merit	Tech Stack	Example Use Case
Org Framework (roles, entities, governance)	ISO/IEC 42001 (AI Mgmt), OECD AI Principles, Society 5.0	City policies, resident needs, laws	Al policies, digital charters, role definitions	Clear governance, role darity	QAI OS + Blockchain registry	Digital city charter ensuring fairness & transparency
16 Ops Framework (CloudOps, DevOps, MLOps, SecOps, RoboOps, FederalOps)	NIST AI RMF, ISO/IEC 23894, NIST SP 800-53, ISO/IEC 27001/17/18	Operational data, Al models, cloud workloads	Reliable ops of CPS + QAI systems	Resilient, secure GQAI ops	QAI Datacenter, CloudEdge, Zero Trust	Automated 911 + disaster recovery across regions
Business Transformation Framework (migration, compliance, SDG linkage)	UN SDGs, ISO 37120/22 (smart cities), IEEE 7000 (ethics)	Legacy systems, resident services	QAI-driven services, SDG- aligned KPIs	Smooth digital transition, citizen trust	QAI Digital Twin, Smart Contracts	Pollution reduction dashboard for municipal reporting

2. Subsystems & QAI CPS Service Models

Municipal Subsystem QAI CPS Component How it Operates Service to Residents

Public Safety (911, Terror Robo Police + Drones + Emergency Monitors alerts, verifies ID, dispatches fleet, shares Rapid response to accidents, crime,

Municipal Subsystem	QAI CPS Component	How it Operates	Service to Residents
Mgmt)	Dispatch Al	real-time video	disasters
Healthcare	Robo Doctors + Med Kit Drones	On-site triage, med kit drop, tele-consult via kiosk	Saves lives before hospital arrival
Traffic & Transit	Traffic Robo Wardens + Routing AI	Dynamic rerouting, congestion mgmt, incident detection	Reduced delays, safe public transport guidance
Waste & Sanitation	Robo Cleaners + Smart Bins	IoT bins, waste routing AI, automated pickup	Cleaner neighborhoods, reduced litter
Commerce & Payments	Shop Robots + Biochip Scanners	Residents pay via trusted robots using biochips	Fraud-proof transactions, cashless safety
Housing & Migration	QAI Digital Twin Housing Mgmt	Smart rental registry, fair pricing, relocation matching	Easier moving, fair rent, transparent housing market

3. Happy Scenario - "A Day in a QAI City"

Resident: Aarti, 29, living in a QAI-powered Digital Society

- Morning: Aarti visits a **street robot** to plan her day. Using her **digital ID** (VC + **biochip**), the robot shows her the fastest **transit route** avoiding congestion.
- **Commute:** A **Robo Warden** helps redirect traffic after an accident. Drones provide live video, and emergency Robo Doctors arrive on scene within minutes.
- Work: At her startup hub, the **QAI Datacenter** has already pre-scheduled utilities (electricity, water) using **smart contracts** to ensure fair billing.
- Lunch: She buys food from a robot-run kiosk, paying with her secure biochip ID no fraud risk, receipt logged in QAI blockchain.
- Evening: Aarti notices a stray dog in her neighborhood. She reports it to a kiosk robot, which dispatches a humane robo-shelter team.
- **Night:** Before sleeping, Aarti asks her **home humanoid** to show community news. It provides trusted, verified updates no need to browse random sites.

Impact:

- No fraud, no search fatigue.
- Residents engage with **robots as first interface**, internet only as backup.
- QAI CPS + Datacenter keeps the city safe, fair, efficient.

4. Rationale Behind This Framework

- Standards-first approach \rightarrow ensures trust, fairness, compliance.
- CPS fleet owned by city, operated by contractors (like your startup) → creates sustainable business + public-private trust.
- **Robots-first service delivery** \rightarrow reduces digital fraud, phishing, misinformation, ensuring citizens feel safer.
- Ops + Org + Transformation integration → ensures every subsystem (traffic, waste, housing, health) maps to your frameworks AND external standards like Society 5.0, UN SDGs, NIST AI RMF, IEEE 7000, ISO 42001, etc.

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Text-Based Block Diagram: QAI Digital Society

```
QAI DIGITAL SOCIETY FRAMEWORK
[Global Standards & Ethics Layer]
  └ Society 5.0 | UN SDGs | ISO/IEC 42001 | IEEE 7000 | NIST AI RMF | ISO 37120/22
  └ AI Risk (ISO 23894) | AI Ethics (OECD, UNESCO) | Cloud Sec (ISO 27001/17/18)
INPUT: Policy goals, city laws, resident rights
OUTPUT: Ethical, compliant quardrails for QAI systems
TECHNOLOGY STACK: Compliance dashboards, AIMS (AI Mgmt System), SDG KPI engines
[Startup Frameworks Integration Layer]
   ORG Framework
                       | 16 OPS Framework
                                             | Business Transformation
  | Roles, Authority,
                     | CloudOps, DevOps, | Legacy-to-QAI migration,
   Citizen engagement | MLOps, RoboOps,
                                             | Digital twin rollout,
                        | SecOps, ResearchOps | Smart city adoption roadmap
INPUT: City data, resident needs, municipal subsystems
OUTPUT: QAI-enabled workflows, secure ops, business models
TECHNOLOGY STACK: QAI OS, Zero Trust, Blockchain ledger, Smart Contracts
```

QAI Datacenter | QAI OS | Cloud-Edge Nodes | Digital Twin Engine

FUNCTIONS:

- Host & orchestrate CPS fleets
- Manage AI/Quantum workloads
- Run compliance + audit services
- Provide data fusion & decision support

INPUT: Sensor data, resident ID/auth, IoT telemetry, policy rules OUTPUT: Optimized city services, analytics dashboards, verified actions TECHNOLOGY STACK: QAI Processor, Hybrid Quantum-Classical ML, PQC crypto

[QAI CPS Fleet Layer]

Humanoids	Drones	Robo Police	Robo Doctors	Robo Kiosks
Assistants	Med kits	Emergency	Triage, kits	Resident
Guides	Deliveries	responders	consultations	interface

OTHER CPS: Traffic Robo Wardens | Robo Cleaners | Food Robots | Mini Transport

INPUT: Requests from residents, sensor alerts, dispatch triggers
OUTPUT: Physical actions (deliver meds, route traffic, clean streets, rescue ops)
TECHNOLOGY STACK: Robotics AI, Edge QAI nodes, IoT sensors, 5G/6G links

[Resident Services & Municipal Subsystems Layer]

| Safety (911, Disaster Mgmt) | Traffic & Transit | Waste Mgmt | Housing | Health & Welfare | Commerce/Payments | Social Events | Culture |

INPUT: Resident queries (voice, ID, biochip), municipal service requests OUTPUT: Verified help, guidance, payments, welfare allocation, city upkeep TECHNOLOGY STACK: VC/DID ID wallets, Biochip scanners, NLP assistants, AI Decision Engines, Blockchain smart contracts

[Happy Path Scenario Flow] Resident \rightarrow Robo Kiosk \rightarrow ID Verification (VC/mDL/biochip) \rightarrow

	sident receives service \rightarrow Logs sent to Audit & Compliance layer \rightarrow Is measured against SDGs / Society 5.0 goals
□ Eac	is diagram shows the layered architecture → from standards & frame works (top), to QAI Core, CPS fleet, and resident services (bottom). The block highlights Inputs, Outputs, Functions, Tech stack. The block highlights is "robots-first" + compliance loops.

Would you like me to **expand this into multiple block diagrams** (one per subsystem: e.g., Safety, Transit, Housing), or keep this as a **single unified stack diagram** for presentations?

You said:

Thanks, sure, you can provide samples for multiple block diagrams for key modules

QAI Datacenter \rightarrow Dispatch CPS Fleet / Provide Route / Process Payment \rightarrow

ChatGPT said:

Great — since your **QAI Digital Society Frame work** is broad and modular, I'll draft **sample text-based block diagrams** for multiple key modules. These are expandable and show **systems**, **functions**, **I/O**, **technology stack**, **and sub-modules** in a structured way.

1. Top-Level QAI Digital Society Framework

QAI Digital Society
Inputs: Resident data, IoT sensor feeds, govt policies, AI Outputs: City services, automated decisions, Robo assistance
Modules:
Technology Stack:

```
- AI/ML + Quantum AI Decision Engines |
- NIST PQC, IEEE/ISO Smart City Standards, UN SDG Targets |
```

2. Resident Services Hub

Resident Services Hub	
Functions: - Food & Water Services - Healthcare & Emergency - Transit & Route Planning - Payments & Utility Billing - Event & Sports Information - Library & Knowledge Access	
Inputs: Resident requests (voice/gesture/app/robot Outputs: Verified service delivery, receipts, safe	
Subsystems: - Robo Assistants & Kiosks - Secure Bio-Chip & Digital Wallet - Multi-language Helpdesk AI	
Technology Stack: - NLP & Speech AI - QAI Cognitive Layer for Context Awareness - Blockchain-secure Payments - Edge CPS Nodes	

3. Community & City Asset Management

İ	Community & City Asset Management	1
+	Functions: - Traffic & Congestion Control - Pollution Monitoring & Waste Mgmt - Water & Power Grid Optimization - Disaster & 911 Response - Public Housing & Rentals	+
+	Inputs: IoT sensors, Citizen complaints, CCTV, Drone feed Outputs: Alerts, Preventive actions, Automated workflows	

4. Autonomous Systems Fleet

5. Happy Scenario Example

Resident A → Approaches Robo Kiosk → Requests transit info
Kiosk verifies ID via secure bio-chip → Accesses QAI CPS
QAI analyzes real-time traffic data from IoT + drones → Suggests route
Resident receives walking + mini-vehicle + food stop suggestion
Payment auto-settled via QAI wallet → Resident gets safe, reliable journey

Perfect I'll prepare a final Colab-ready Python script that merges all the parts we discussed:
 Frame work Initialization (QAI, Society 5.0, NIST, UN SDG, etc.) QAI CPS Systems Setup (SafetyBot, HealthCPS, TransportCPS, ID Verification) Daily Simulation for Aarti (hourly events, responses, interventions) Field Logs (what happened, when, where, how) KPIs & Charts (safety, productivity, service, crime reduction, satisfaction)
<i>//</i>
Here's how I propose to embed them into the Colab simulation :
□ Startup Parent Frameworks
 Org Frame work → Structure, roles, compliance, governance. Example: Responsible AI Board, Municipal Authority Integration. Ops Frame work → Unified operations of QAI systems (QAI Ops, CPS Ops, Cloud Ops). Example: Incident response, SLA monitoring, predictive analytics. Business Transformation Frame work → How the startup modernizes municipal services & aligns with Society 5.0, UN SDG, IEEE/NIST standards. Example: New service onboarding, resident digital services, contractor ecosystem.
☐ Mapping to QAI Digital Society Simulation
 These parent frame works initialize first in the code → they "load" governance, operations, and transformation functions. Then sub-frame works (QAI Digital Society, QAI CPS systems) operate under them. Finally, Aarti's daily scenario runs as a case study inside this ecosystem.
<i>"</i>
☐ I can extend the Python Colab code to include:

- Frame work Initialization Printouts (Org, Ops, Transformation).
 A hierarchy mapping log showing which sub-systems belong to which parent.

- A simulation narrative that mentions when these parent frameworks influence a decision.
- Charts at the end for KPIs (safety, productivity, service quality, happiness).

Would you like me to generate the final merged Colab code now with:

- 1. Parent frameworks (Org, Ops, Business Transformation)
- 2. Sub-frameworks (QAI Digital Society, CPS, municipal services)
- 3. Aarti's demo day logs + charts

☐ This way you'll have a **complete end-to-end demo** showing the startup's ecosystem.

//

Great — below is the **final**, **single-cell Colab-ready Python script** that merges everything we discussed:

- Parent startup frameworks: **Org**, **Ops**, **Business Transformation** (initialization + mappings)
- External standards mapping (Society 5.0, NIST, ISO, UN SDGs, IEEE)
- QAI CPS systems data and tech stack
- CPS operations simulation (alerts, verifications, dispatch)
- Full **Aarti day** field logs (what, where, when, how) with timestamps & locations
- KPI calculation and three inline charts: KPI bar, Happiness over day, Event timeline (Gantt-like)
- Outputs saved to files (CSV, Markdown) in Colab working directory

For more details, email: vijaymohire@gmail.com

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