



# NULL POINTERS

# CS202

## OUR TEAM

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# PROBLEM STATEMENT

1.

## GOVERNMENT POLICYMAKERS

- Decisions are faster than reports
- Static data cannot test alternatives
- Averages hide real winners and losers
- Fixes happen only after damage

2.

## INDIVIDUAL USERS

- Policies are hard to understand
- Daily impact is unclear
- Reasoning is not visible
- Feedback comes too late

3.

## EXPERTS & RESEARCHERS

- New experts struggle to stand out and build trust
- There is no verified way to showcase niche expertise to the right audience

# OUR SOLUTION

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INTRODUCING  
 PolicyWave  
UNDERSTANDING POLICY IN MOTION

PolicyWave addresses the "policy gap" where legislation is opaque and hard to predict by using an agent-first AI architecture. Instead of static reports, it deploys role-aware simulations (Student, Govt, Expert) to tailor explanations and visualize trade-offs before implementation. The system ensures transparency through assumption-driven, non-predictive outputs, helping citizens understand personal impact while giving policymakers structured data on risks and budgets. By logging these simulations immutably, it creates a trusted, data-driven feedback loop for civic engagement.

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POWERED BY  [ON-DEMAND.IO](#)

#### TARGET USER EXPERIENCE

##### Citizens

Receive clear, plain-language kitchen-table math.



**RUN SIMULATION ▶**

##### Policymakers

Visualize trade-offs, assumptions, and comparisons.



ROUTER AGENT



DATA AGENT



SIMPLIFIER

##### Experts

Access deeper analytical context and BYOM logic.

## POLICY SIMULATOR

• LIVE AGENT ROUTING

### DAILY COMMUTER DASHBOARD

#### INPUT SEQUENCE

*"How will this affect my monthly fuel costs?"*



#### AGENT ACTION: SIMPLIFIER AGENT

Kitchen-Table Math: Expected increase of ₹300/mo. offset by health savings from reduced smog.

# FEATURES

## LANDING PAGE

- Role-based login for Citizens, Policymakers, and Experts
- Quick onboarding with basic details to show only relevant policies

## TRENDING NOW

- Policies ranked by relevance and activity
- Fast-moving topics highlighted
- Short, easy-to-read policy cards

## SIMULATION

- User Simulator: Chat-based tool that explains policy impact in simple language
- Government Simulator: Scenario testing with impact graphs
- Results shown as Brief summary, Detailed explanation with risks, Visual old vs new comparison and Custom inputs to test future scenarios

## SETTINGS

- Update interests anytime
- Clear data and privacy controls

## EXPERTS

- Verified expert profiles with ratings
- Webinar schedule with topic filters
- Simple application and verification flow

## HISTORY LOGS

- Timeline of past simulations
- Yearly policy summary
- Easy revisit of previous work



### Micro-Impact Mapping

Beyond averages: See impact on crop cycles, income brackets, and regions.



### Risk-Free Innovation

Simulate 100+ versions safely to find the optimal benefit configuration.



### Cross-Sector Intelligence

Identifies crisis triggers between ministries before they manifest.



### Cognitive Bridge

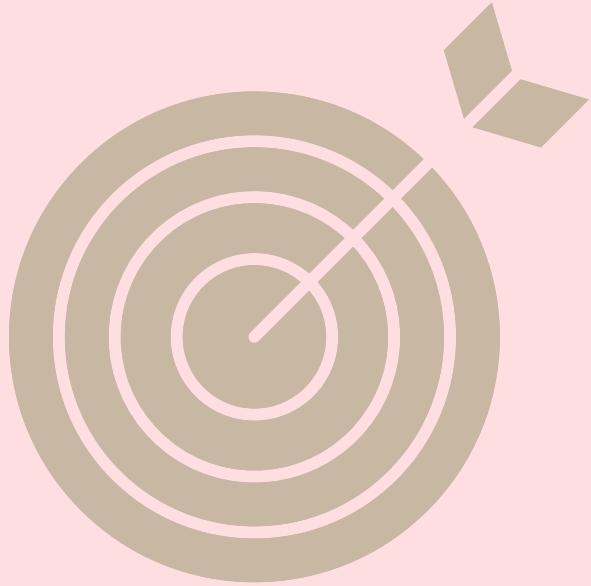
Translates technical legislative deltas into simple kitchen-table math.



### Fact-Anchored Reasoning

Zero-Hallucination Guardrails utilizing NITI Aayog verified datasets.

# IMPACT



## BETTER POLICY DECISIONS

Policymakers understand consequences before rollout, reducing unintended harm..

## PROTECTION FOR VULNERABLE GROUPS

Impacts on low-income and high-risk groups are visible early, not after damage.

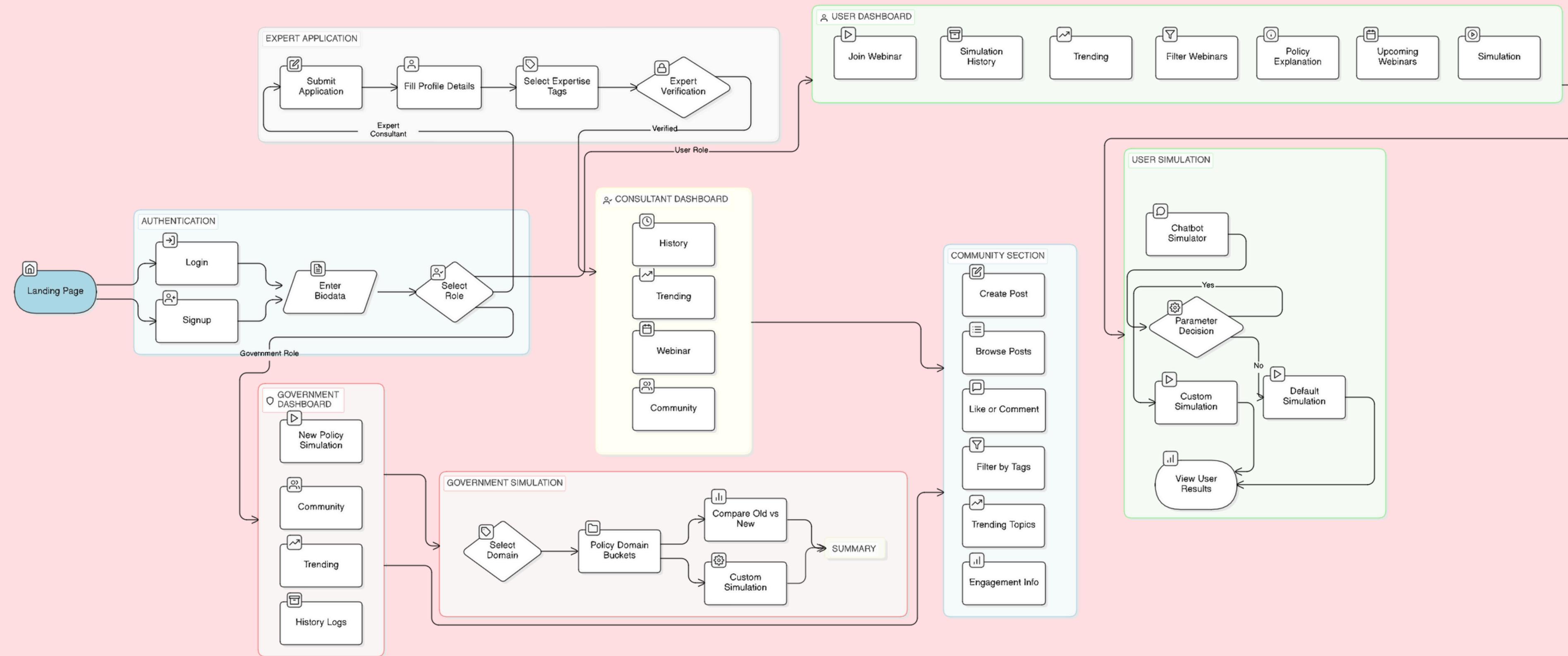
## FASTER AND SMARTER GOVERNANCE

Decisions are made with real-time insights instead of delayed reports.

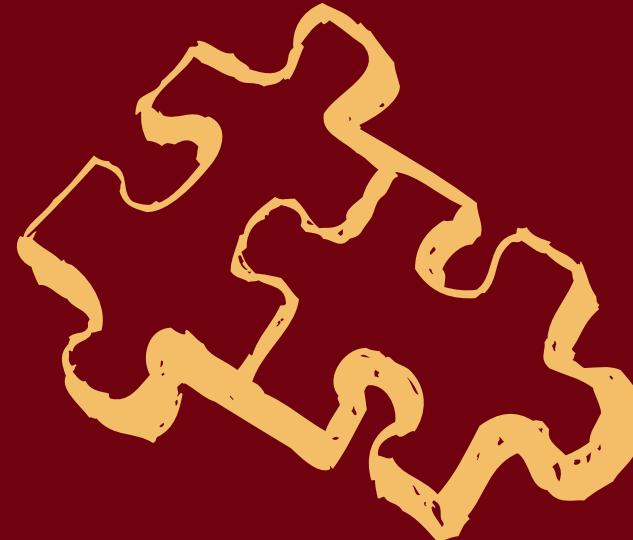
## HIGHER PUBLIC TRUST

Transparent explanations make policies easier to understand and accept.

# APP FLOW



# U.S.P.



## SIMPLE POLICY UNDERSTANDING

Complex policies are explained in everyday language that people can easily understand.

## CROSS-SECTOR IMPACT DETECTION

Policy Wave shows how a decision in one department can affect other sectors before problems appear.

## FACT-BASED AI REASONING

The AI works only on verified data and compares changes to real baselines, avoiding guesswork.

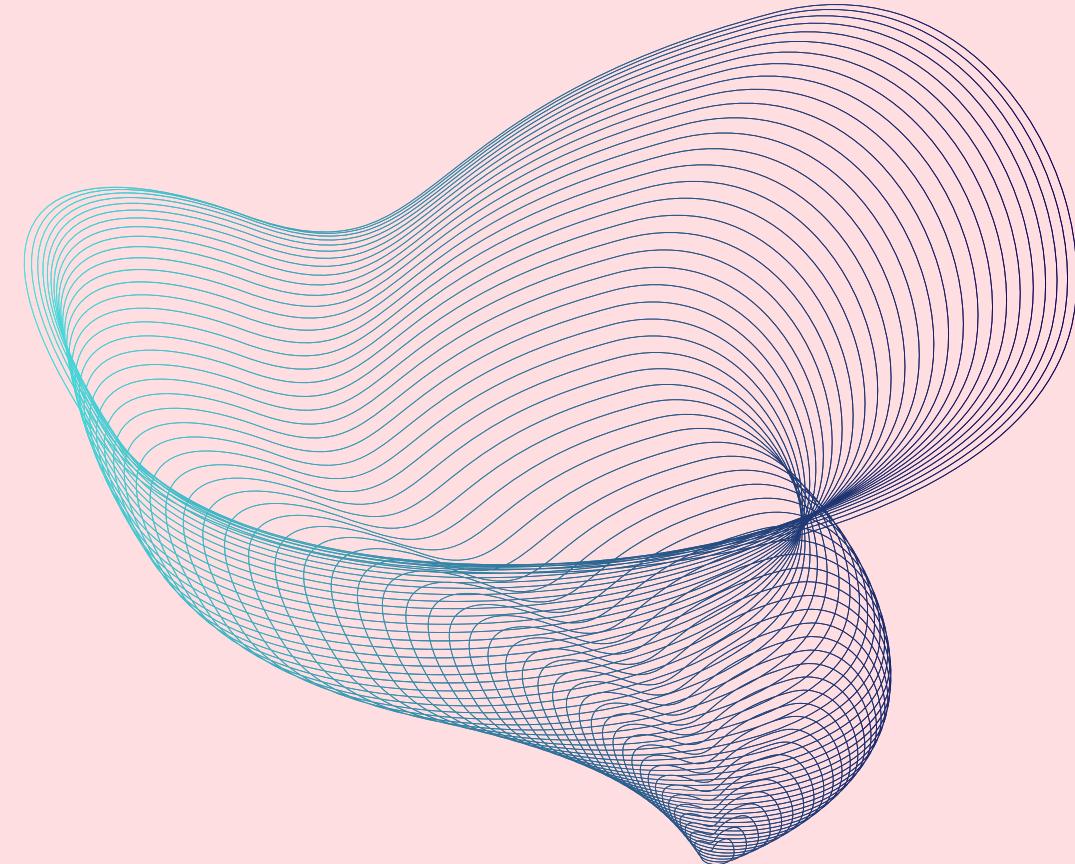
## SAFE POLICY EXPERIMENTATION

Policymakers can test and refine a policy many times in a virtual setup without real-world harm.

## REAL IMPACT BY GROUP

Policy Wave goes beyond averages to show how different income groups and regions are affected.

# FUTURE SCOPE



## FULL POLICY COVERAGE

Scale the platform to cover every central, state, and local policy domain.

## B2B CUSTOM SOLUTIONS

Offer tailored versions for governments, think tanks, enterprises, and NGOs.

## BUILT-IN MESSAGING

Enable direct, secure communication between users, experts, and policymakers.

## MULTILINGUAL SUPPORT

Expand to all major Indian languages so policies are accessible to everyone.

THANK YOU!