

— THE COMPLETE TOUR

JanVayu, end to end

Every section of the platform — the live data, the health toll, the money, the accountability, and the tools — one slide at a time.

— CHAPTER 01

Why it exists

01

— WHY IT EXISTS

India breathes the world's most dangerous air

- **1.72 million** deaths a year from ambient PM2.5 (Lancet Countdown 2025)
- **3.5 years** of life expectancy lost on average (AQLI 2025)
- **6th** most-polluted country; Loni the most-polluted city on Earth (IQAir 2025)
- Roughly a quarter of the global PM2.5 death burden — the largest of any nation

The scale is why JanVayu exists: to turn scattered official data into a public record anyone can act on.

— WHY IT EXISTS

A public record, not a campaign

- **Non-partisan** — we track promises and money, not parties
- **Citizen-led and open** — anyone can read, reuse or improve it
- **Every number cites its source**, and is re-checked against it every week
- Free, forever, no ads

The case for clean air is strong enough that it never needs an exaggerated number.

— WHY IT EXISTS

One clear picture, from many sources

- **CPCB / CAAQMS** — India's official monitoring network
- **WAQI, IQAir, OpenAQ** — global aggregators and community sensors
- **CREA, WHO, Lancet, NASA** — research and satellite data
- JanVayu cleans and cross-checks them into one picture you can trust

Scattered official data, turned into something a citizen can actually read.

— CHAPTER 02

The live picture

02

The dashboard

- Live AQI for your city with a plain-language health band
- Cigarette-equivalent and disease-risk read-outs
- “Did you know” sourced facts and an anomaly explainer
- Everything one tap from the city selector at the top

The home screen answers “how bad is it right now, and what does that mean for me?”

— THE LIVE PICTURE

Real-time AQI for 117 cities

- 117 Indian cities, colour-coded by severity
- Type-to-search — jump to any city instantly
- Covers the major NCAP non-attainment towns
- Every value shown with its source and time

The whole country, one city tap away.

The live map

- Every monitoring station plotted, colour-coded by AQI
- **MPs / MLAs / Districts** — all 543 Lok Sabha seats and 785 districts coloured by live air; grey where no monitor is near
- **Sources** — landfills, dumpsites, coal mines, red/orange industrial parks, SEZs
- Constituency pop-ups link straight to the Accountability tracker and RTI templates

Where the numbers come from — and the air your MP answers for.

Rankings & comparison

- **City Rankings** — cleanest to worst, live / 7-day / 30-day
- **Compare** — any two cities side by side, with a verdict
- International benchmarks (WHO guideline, world cities)
- Shareable cards for any ranking or comparison

Context turns a number into a story.

Trends & forecast

- **Trends** — scrubable 24-hour and year-over-year charts
- **Forecast** — a free 5-day PM2.5 outlook (Open-Meteo / CAMS)
- **Farm Fire Tracker** — live stubble fires (NASA FIRMS) across the Punjab-Haryana-NCR belt
- Ask JanVayu can answer “will it be bad tomorrow?”

Look back to understand, look forward to plan.

How polluted is your ward?

- A ward-by-ward map for **142 cities** — the spread beneath the city average
- Air quality estimated from the city's live monitors
- An **annual** satellite PM2.5 layer in every city, beside the live one
- Heat, green cover and built-up (Landsat, ESA WorldCover) in every one of them
- **Who breathes it** — schools and health centres plotted over the ward colours

A city is not one number — your ward can be very different from the airport monitor.

— THE LIVE PICTURE

Every village in India

- All **584,615** village boundaries — the level below the ward atlas
- Each one carries an **annual** PM2.5 figure from satellite (~1 km)
- Coloured against the WHO guideline (5) and India's limit (40)
- The live estimate stays separate — and says so when no monitor is near

Two-thirds of India doesn't live in a city. Now it's on the map.

Alerts, correlations & the pollution calendar

- **AQI Alerts** — Web Push when your city crosses your threshold
- **Pollution Correlations** — how AQI moves with weather and events
- **Pollution Calendar** — the seasonal shape of your city's air
- **Installable app** — add JanVayu to your home screen; alerts arrive even when it's closed

Turn monitoring into something that reaches you.

Health & exposure

03

What the air does to a body

- **Health Impact** — GEMM-based mortality risk for your exposure
- **Beyond the Lungs** — heart, brain, kidneys, metabolism, pregnancy
- Anchored on recent Indian cohort studies, cited in-line
- Translates a $\mu\text{g}/\text{m}^3$ number into a health consequence

PM2.5 is not just a lung problem.

The most vulnerable

- **Children's Health** — smaller lungs, higher dose, developing brains
- **Women's Health** — cooking-smoke exposure, maternal & pregnancy risk
- Household air pollution and the clean-fuel gap
- Each with sourced figures and action steps

Exposure is not shared equally.

Your own exposure

- **Exposure Report** — your estimated daily dose
- **Exposure Diary** — 16 activities weighted by real PM2.5 multipliers
- **Indoor Air** — why inside is often worse, plus a sensor buying guide
- Cigarette-equivalent and life-expectancy read-outs

Make the invisible personal.

What to do about it

- **Should I Go Outside?** — a today-specific yes/no by activity
- **Purifier Calculator** — the right CADR for your room
- **School Closures** — the GRAP thresholds that suspend classes
- **Occupational Exposure** — vendors, traffic police, gig riders, waste workers

From “how bad is it” to “what do I do today”.

The economic bill

The bill nobody sees

- **Economic Cost** — India's ~US\$339.4B / 9.5%-of-GDP loss (Lancet Countdown 2025)
- Lost workdays, lower yields, medical spending
- **Migration & Displacement** — when air drives people to move
- **Migration Calculator** — life-years gained by relocating

Dirty air is a macroeconomic story, not only a health one.

Following the money

05

— FOLLOWING THE MONEY

Policy & budgets

- **Policy Tracker** — NCAP, GRAP, court orders and their status
- **Budget Tracker** — where clean-air money is allocated vs spent
- **City Policy Tracker** — targets and expenditure city by city
- The gap between promise and delivery, made visible

Accountability starts with following the money.

Scorecards & the mission tracker

- **City Scorecards** — a graded report card per city, with one-click RTI
- **Mission Tracker** — independent E1-E5 verification of NCAP claims
- **Political Accountability** — promises vs reality, dated
- **Accountability Brief** — an auto-generated ward-level brief

Turn data into pressure.

Sources, wins & the law

- **Industrial Sources** — the plants and sectors behind the smog
- **Where PM2.5 comes from** — the per-city source-apportionment ring
- **Clean Air Wins** — what has actually worked, honestly
- **Legal Framework** — your rights, key rulings, and how to use them

Name the sources; know your rights.

The RTI Assistant

- Pick a state and a topic; it drafts a filing-ready RTI
- Pre-filled from a scorecard when a city misses its target
- Names the right pollution-control authority
- Turns a citizen's frustration into a formal question

The single most actionable tool on the site.

Citizen action

06

Act, learn, be heard

- **Take Action / Citizen Plan** — concrete steps for your situation
- **Voices & Field Testimony** — the social record and on-ground accounts
- **Workshops** — book a facilitated session, plus a 10-question air-literacy self-check
- **Learning Games** — seven original India-context games

A platform you use, not just read.

News, in context

- **Social Feed** — curated air-quality conversation
- **Live News** — the latest reporting, aggregated
- **Photo Gallery** — “The air, in pictures”, 24 openly-licensed documentary photographs
- **Story of the week** — a rotating deep-dive on the dashboard

Keep the issue alive between crises.

Tools & knowledge

07

— TOOLS & KNOWLEDGE

Ask JanVayu

- A chatbot that answers about your city and ward
- Seasonal, forecast and NCAP context built in
- Answers in ten languages, with sources
- Your fastest way into the data

Natural-language access to everything above.

Learn & look things up

- **Understanding AQI** — what the number actually rolls up
- **Glossary** — the vocabulary, one keystroke away (Ctrl-K)
- **Reading List** — a live Zotero library of ~29 studies
- **FAQ** — 27 sourced answers with a live search

From curious to informed.

Take the data with you

- **Downloads** — briefs, datasets, and citation-ready material
- **Data Archive** — a growing record of readings over time
- **Open Data API** — pull the data straight into your own work, no login
- **Embeddable widgets** — drop live AQI or rankings into any site

Built for researchers, journalists and advocates.

Trust

08

Every number, fact-checked — weekly

- An automated audit re-verifies every statistic against primary sources
- Corrections are logged publicly in the repository
- Two honest methods are never collapsed into one
- Unverifiable numbers are flagged, not guessed

Honesty has to survive the plumbing.

Live vs annual — the honest version

- A single day's AQI swings with the weather
- Annual averages are the fair yardstick for comparison
- Ward maps show a live SPREAD, not a per-street truth
- We say so, everywhere the distinction matters

Being right includes being clear about uncertainty.

— GET INVOLVED

Clean air is not a privilege. It is a right.

The platform is open source and the data is yours — pull it, embed it, file an RTI with it, or add your name to the team at github.com/JanVayu/JanVayu.