

Idea · Lima, Peru

Nevado Signal

Seasonal river-flow forecasts from glacier and snow data for irrigation boards in the Andes



Nevado Signal

The problem

What's broken today

Irrigation boards in Peru's Andean valleys decide each dry season how many hours of canal water every farmer gets, based on last year's flows and a few manually read river gauges. The glaciers feeding these rivers have shrunk sharply over recent decades, so dry-season flow is harder to predict each year. When a board over-allocates in June, downstream farmers lose potato and quinoa plantings by August.

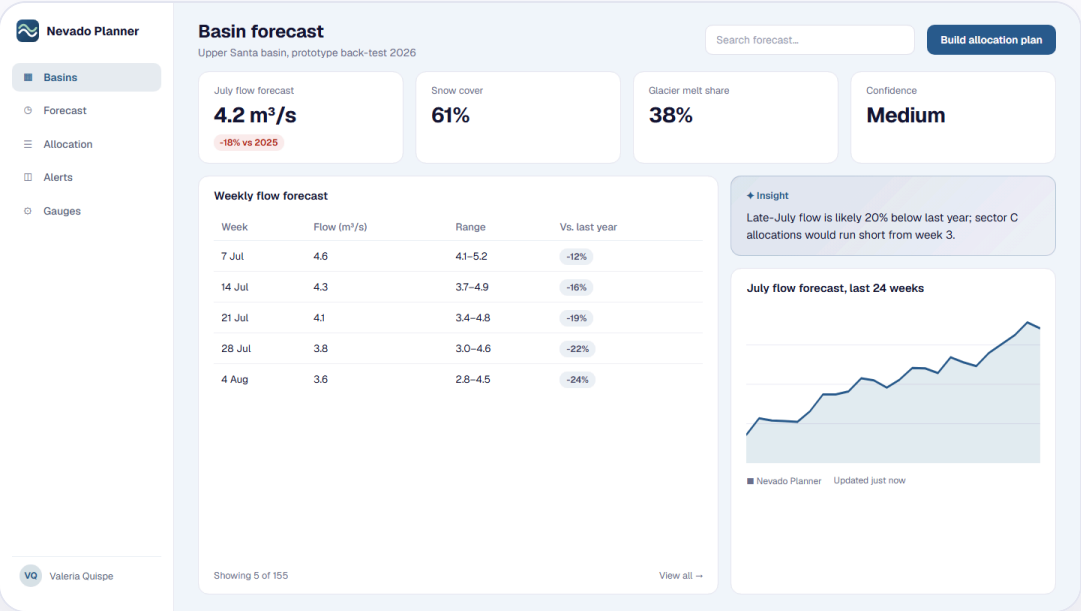


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Our solution

Nevado Planner

Nevado Signal combines free satellite snow and glacier imagery, weather forecasts and the board's own gauge readings to forecast weekly river flow for the next 120 days. Boards get a simple allocation plan by canal and sector in Spanish and Quechua, plus an SMS alert when forecast flow drops below the plan. We are building the first version with three boards in the Cordillera Blanca.



Allocation plan

 **Nevado Planner**

Basins

Forecast

Allocation

Alerts

Gauges

Allocation plan

Huanchac canal, 4 sectors

Share plan with board

Farmers

356

Hours per turn

5.5 h

-1 h

Shortfall risk

Low

Sector schedule

Sector	Hectares	Hours per week	Change
A (upper)	420	32	-4
B (middle)	610	44	-6
C (lower)	730	52	-9
D (ravine)	190	14	0
Reserve	-	8	+8

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View all →

+ Insight

Cutting 19 hours a week now avoids a full stop for sector C in mid-August.

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VQ

Valeria Quispe

Why now

The timing

Glacier retreat makes last year's flows a poor guide, while free satellite snow data and cheap SMS reach even remote boards.

Market

Water user boards, regional water authorities and agribusinesses in the Andes from Colombia to Chile; Peru alone has well over a thousand water user committees.



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How we make money

Planned annual subscription per watershed (around US\$4K–US\$12K), with a paid forecast service for agribusinesses and hydropower operators downstream.

Traction

Where we are

3 boards

Design partners

2

Pilot basins

5,600 ha

Hectares in pilot

34 boards

Waitlist

- 3 irrigation boards signed as design partners
- Prototype back-test on 2 basins covering 5,600 hectares
- 34 boards on the waitlist after two regional workshops

Team

Who's building it



Valeria Quispe

CEO and co-founder



Mateo Rojas

CTO and co-founder



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The ask

What we're raising

Raising US\$500K pre-seed to run three paid basins in the 2027 dry season

- First production release for the 2027 dry season
- Field engineer to install and maintain gauges
- Quechua voice alerts for board members



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