

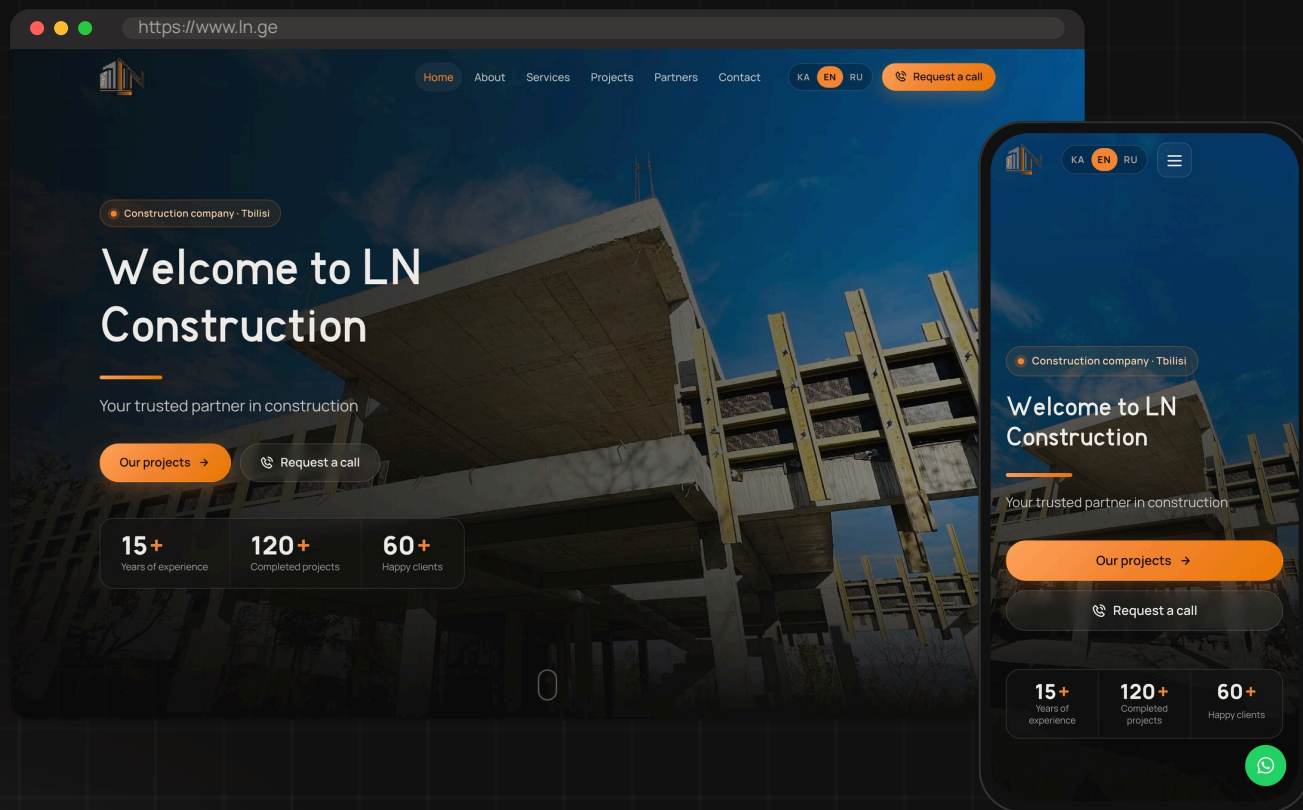


LN CONSTRUCTION

Project overview · Delivered work

LN Construction

A complete redesign of LN Construction's corporate website and admin panel – in the company's own colours, in three languages and built mobile-first.



PLATFORM

Corporate website +
admin panel

LANGUAGES

Georgian · English ·
Russian

TECHNOLOGY

PHP 8 · MySQL · cPanel

STATUS

Redesign · 2026

Contents

01	Executive summary	2
02	Site structure and how it works	3
03	Public website	4
04	Leads and e-mail notifications	9
05	Three languages – KA · EN · RU	11
06	Admin panel	12
07	Content management	14
08	Texts and translations	17
09	Settings – e-mail and contacts	19
10	Mobile version	21
11	Security and reliability	23
12	Technology and architecture	24

⌘ Screenshots were taken on a staging copy of the site. Some numbers, texts and people shown are demo content.

Executive summary

In.ge is the corporate website of **LN Construction**, a Tbilisi-based company doing monolithic, facade, renovation, design and geodetic works. The site presents the company, its services and completed projects, and turns visitors into leads through a contact form, a “request a call” button and WhatsApp.

Appy redesigned the whole website and its admin panel from the ground up: a premium dark interface in LN’s own orange and graphite, a fully responsive layout, three languages and a new admin panel where every photo, project, service and text is managed without touching code. The existing database was kept — no data was lost or migrated.

3

languages — KA, EN, RU

9

admin panel sections

3branded e-mail
templates**2-step**admin sign-in: password
+ e-mail code

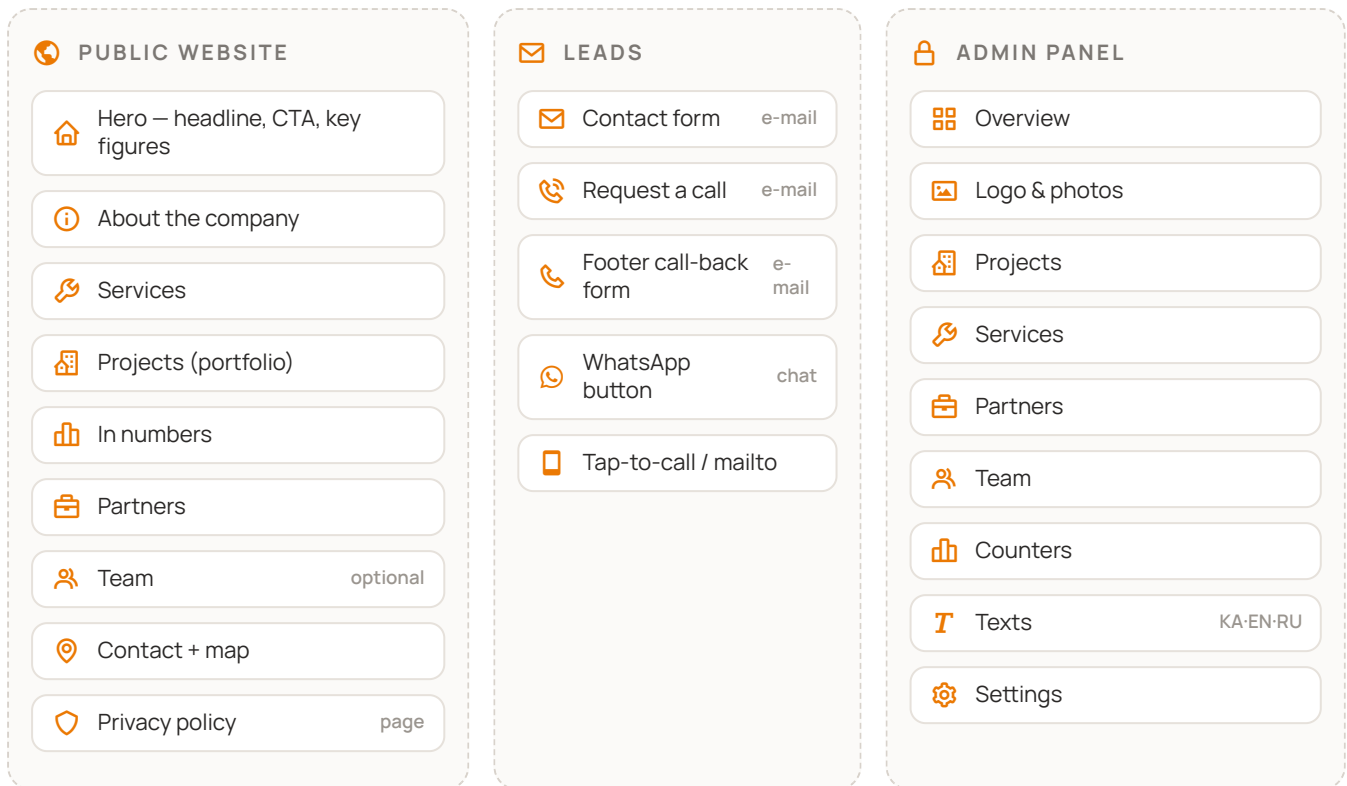
What the redesign solved

- **Outdated look** — a generic template is replaced with a modern, brand-matched design built around LN’s real project photos.
- **E-mails did not arrive** — the contact form and call requests now go out through the server’s own mail system, and the visitor sees an honest error if sending fails.
- **Hard-to-manage content** — a nine-section admin panel; titles and descriptions are edited in all three languages right on the item card.
- **Weak mobile experience** — every block was redesigned for the phone: full-screen menu, compact cards, two-column project grid.
- **Security gaps** — legacy admin endpoints were closed, all queries use prepared statements and every admin form is CSRF-protected.

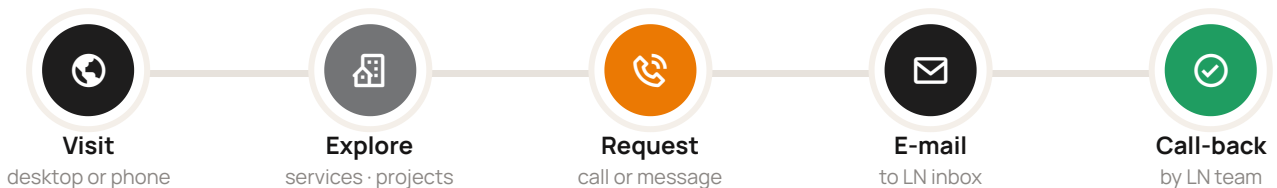
📄 Screenshots were taken on a staging copy of the site. Some numbers, texts and people shown are demo content.

Site structure and how it works

The site is a single, fast landing page with anchored sections, a privacy-policy page and a separate admin area. Everything the visitor reads is stored in the database and editable from the admin panel.



From visit to call-back



- Visit** — the visitor lands on the hero with the company headline, two clear actions and key figures (years of experience, completed projects, clients).
- Explore** — services and the project gallery show what LN builds; any photo opens full-screen with its title and description.
- Request** — one tap on “Request a call” asks only for a phone number; the contact form asks for name, e-mail, subject and message.
- E-mail** — LN instantly receives a branded e-mail with all details and a one-click “Call” or “Reply” button.

03 Public website

The public site is one page with smooth anchored navigation. The header stays transparent over the hero and turns into a blurred dark bar when the visitor scrolls; the active section is highlighted in the menu.

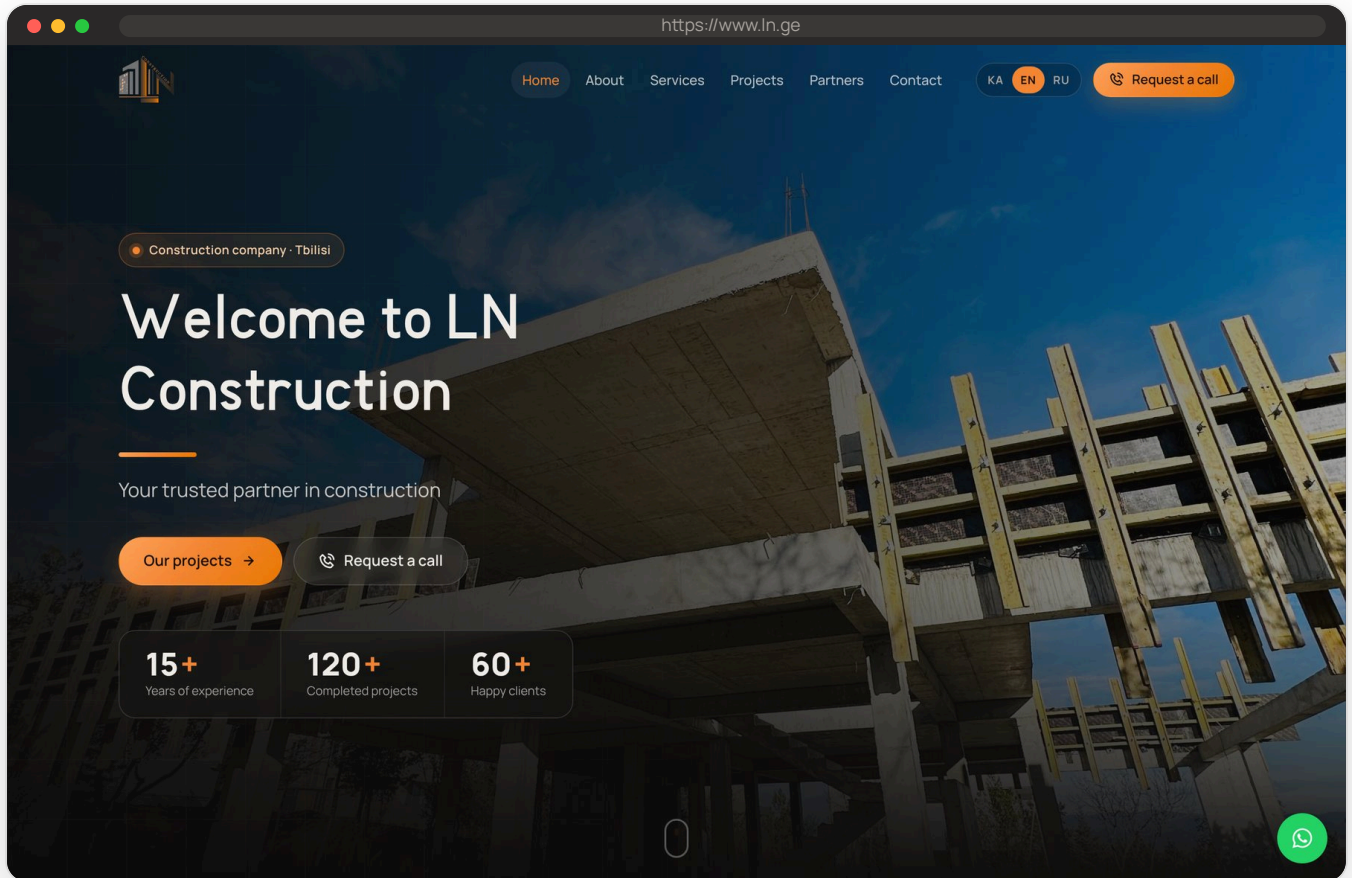


Fig. 1. Hero section — headline, two calls to action and key figures

- Full-screen project photo with a dark gradient overlay, so the headline is always readable on any image uploaded by the admin.
- Text language switcher **KA · EN · RU** (no flags) and a “Request a call” button in the header.
- Animated counters (years, completed projects, clients) — numbers come from the admin panel.
- Preloader with the LN logo only on the first visit or after a language change — never on every click.

■ About the company

A large photo with an orange frame and a “years of experience” badge, the company slogan and the three directions – residential, commercial and industrial construction.

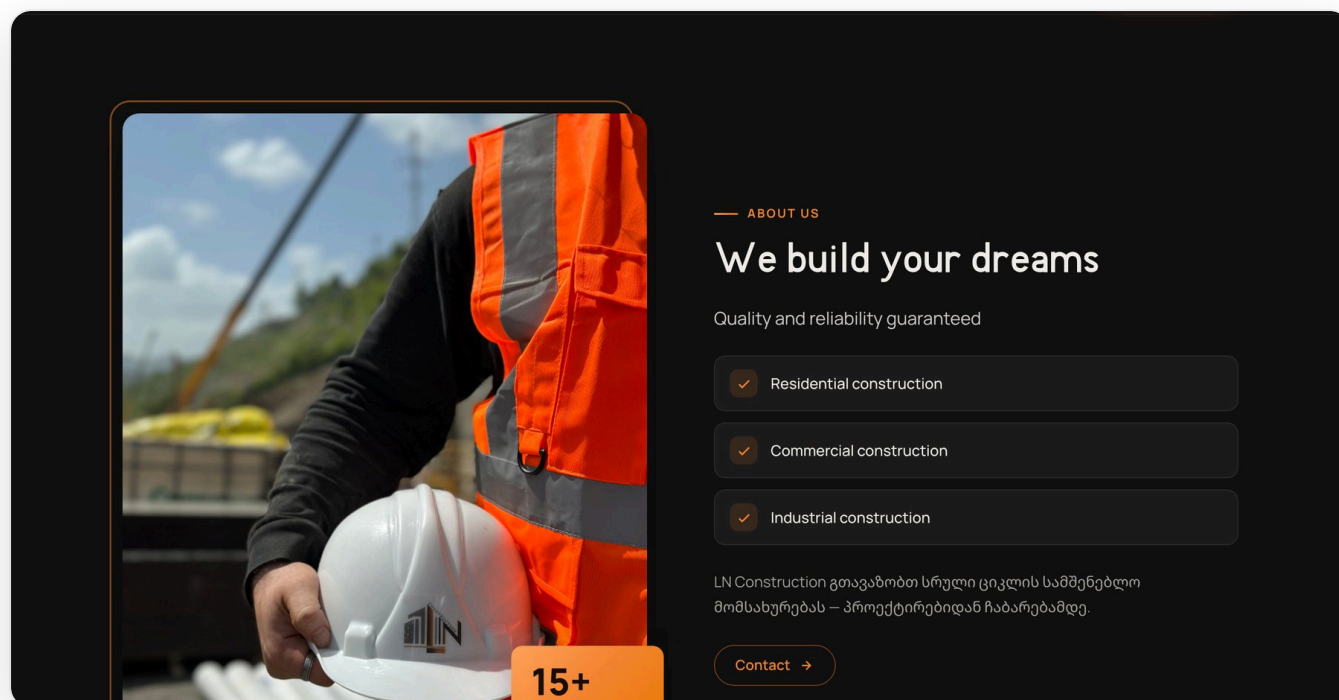


Fig. 2. About section

■ Services

Each service is a numbered card with an icon, title and short description. Cards highlight with an orange top line on hover. Services, their order and icons are managed in the admin panel.

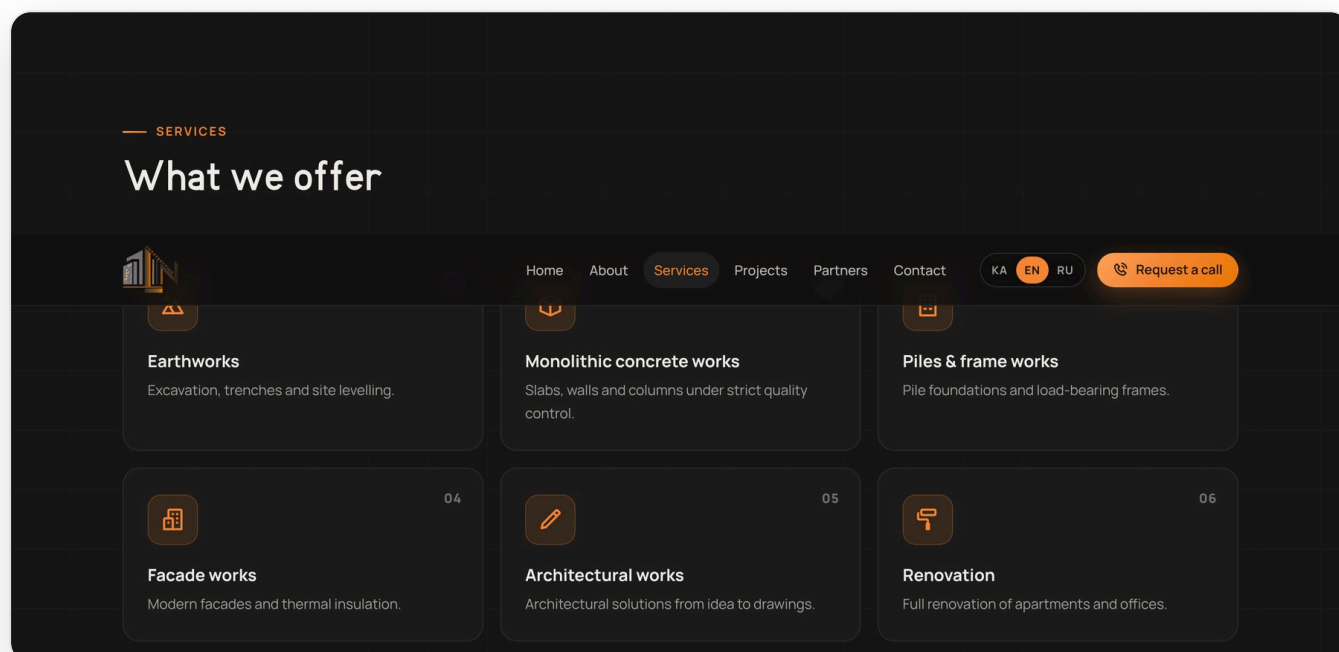


Fig. 3. Services grid

■ Projects (portfolio)

A bento-style gallery: the first project is shown large, the rest in a grid. Every card shows the project number, title and description; a click opens a full-screen lightbox with swipe support on the phone.

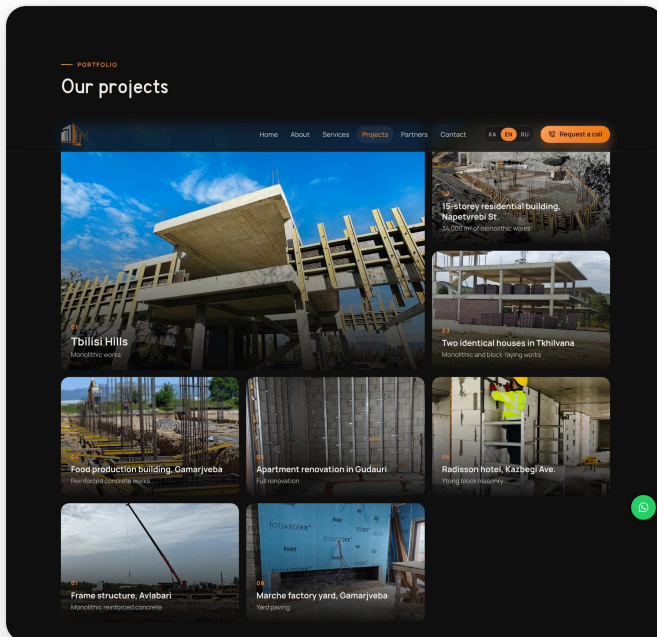


Fig. 4. Project gallery

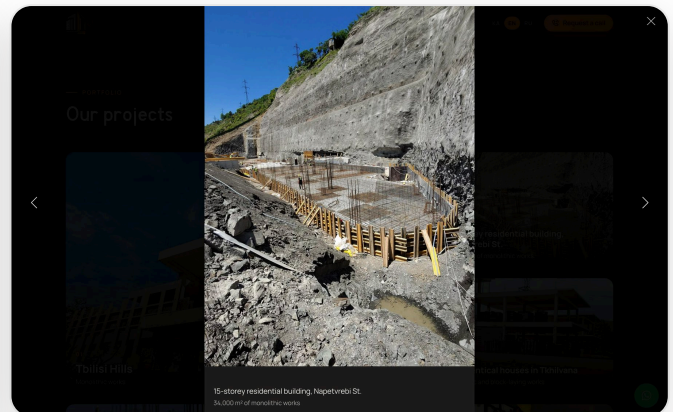


Fig. 5. Lightbox with project title and description

■ In numbers

Up to five counters animate when they scroll into view. The grid adapts to the number of counters so the layout never has empty gaps.

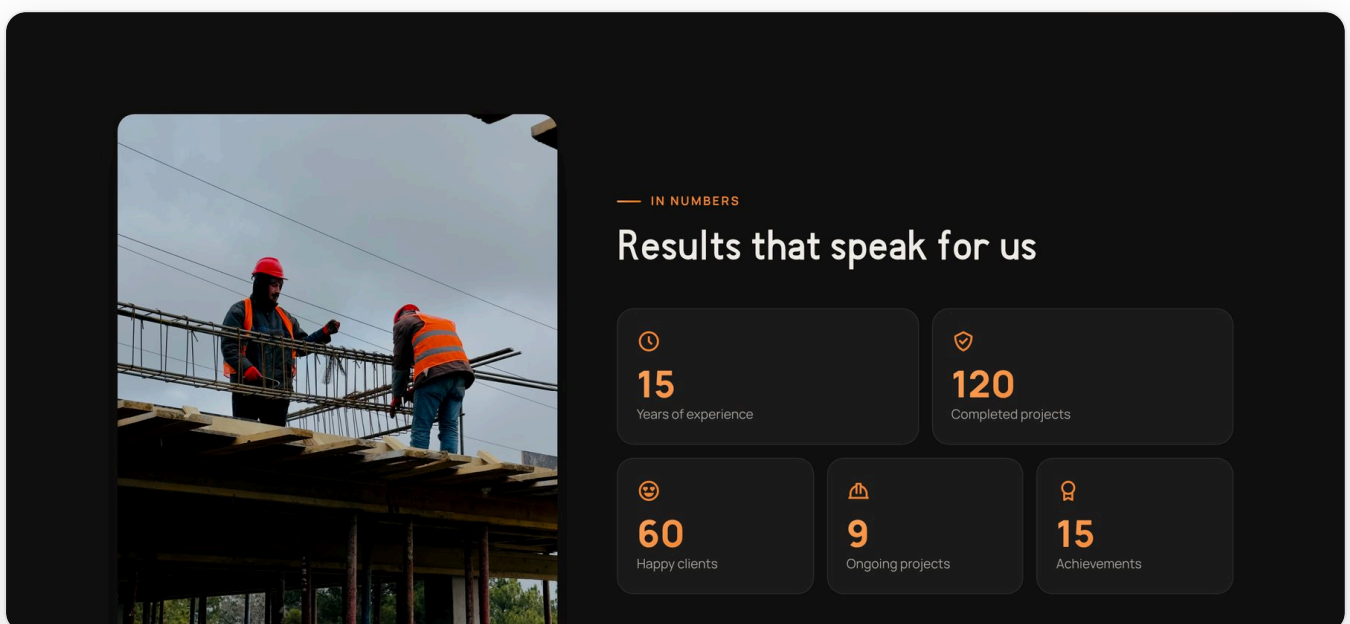


Fig. 6. Statistics section

Partners

Partner logos run in an endless, smooth marquee on white tiles; they are shown in grey and turn into full colour on hover. The animation pauses when the visitor points at it.

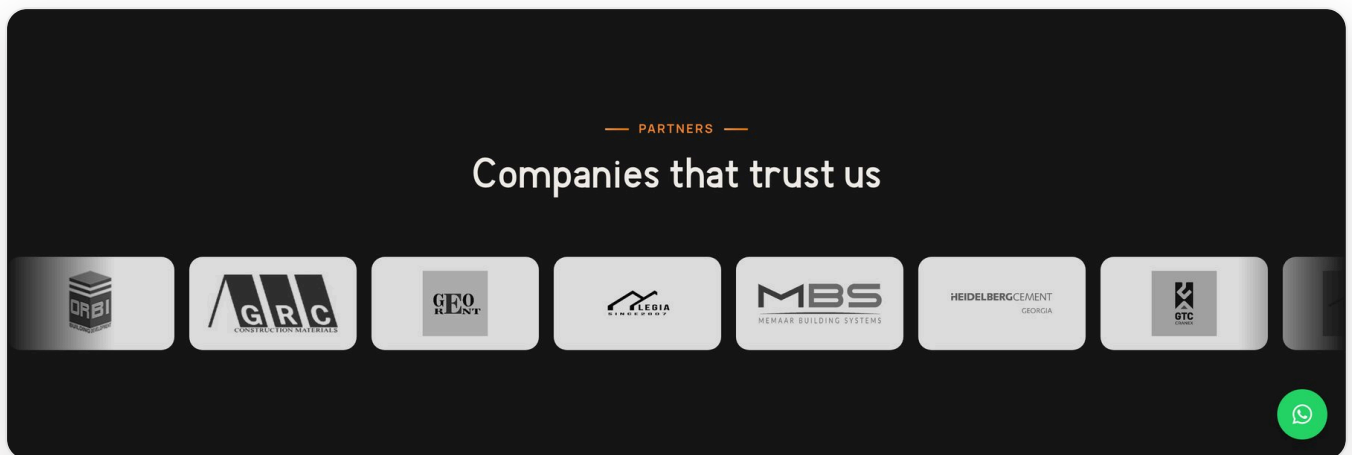


Fig. 7. Partners marquee

Contact

Address, phone and e-mail as large tappable cards (open maps, call, write), a contact form and a Google map styled to match the dark theme.

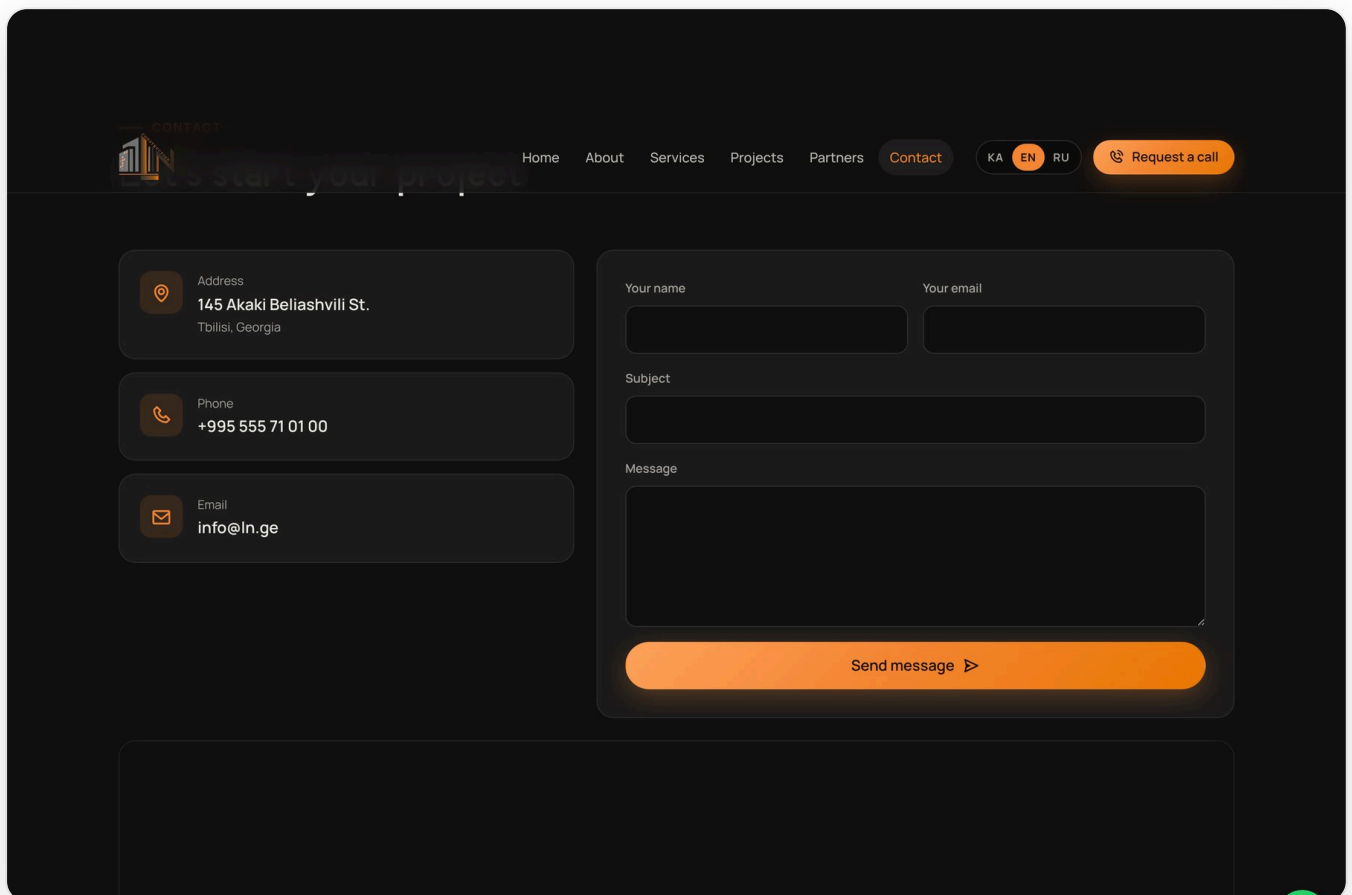


Fig. 8. Contact section — cards, form and map

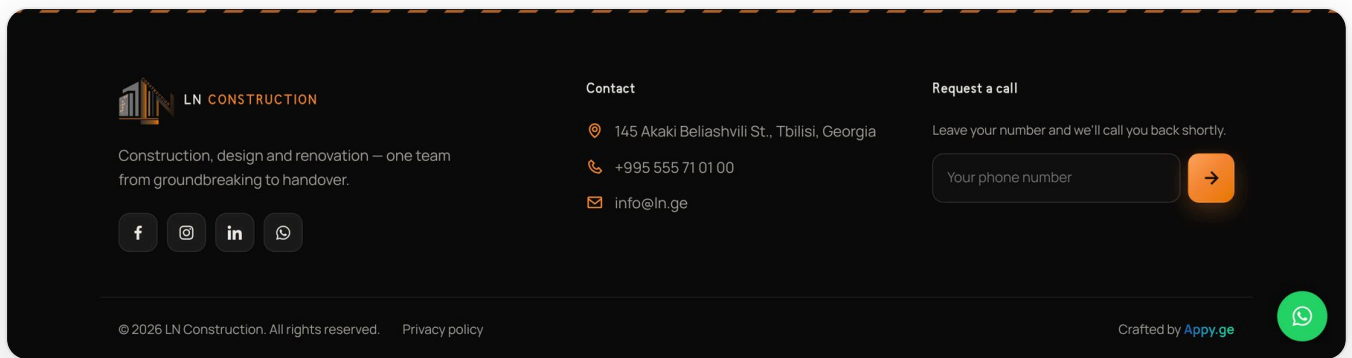


Fig. 9. Footer with contacts, socials and a quick call-back form

- Footer: logo, short company description, social links (Facebook, Instagram, LinkedIn, WhatsApp), contacts and a one-field call-back form.
- A floating WhatsApp button and a “back to top” button; a light cookie notice that remembers the choice.

Privacy policy

A separate page in the same design. Its whole text is stored in the database in three languages and can be edited from the admin panel.

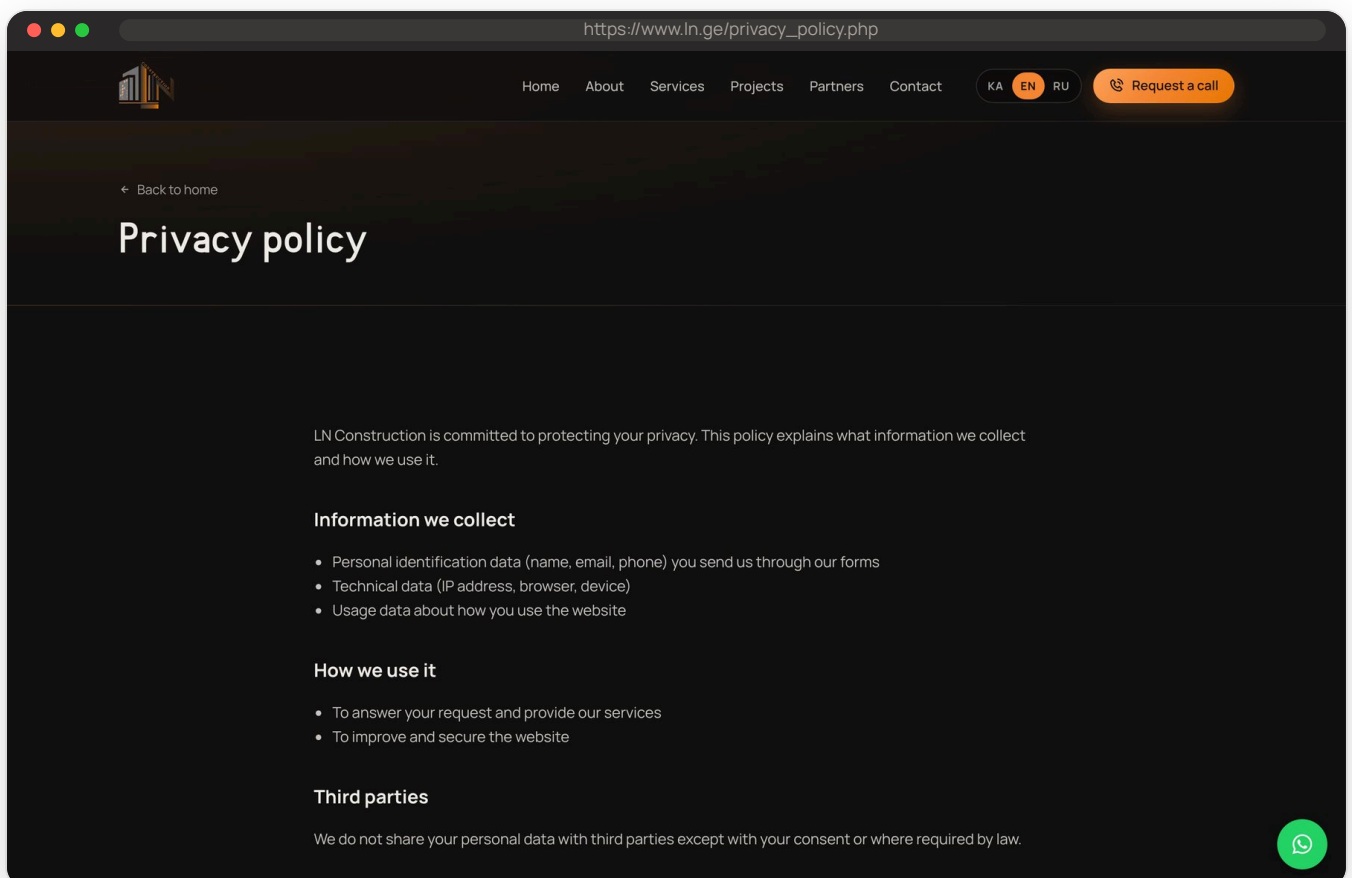


Fig. 10. Privacy policy page

04 Leads and e-mail notifications

The site has four ways to reach LN. All forms work without reloading the page, keep what the visitor typed if something goes wrong and show the result in a clear SweetAlert dialog.

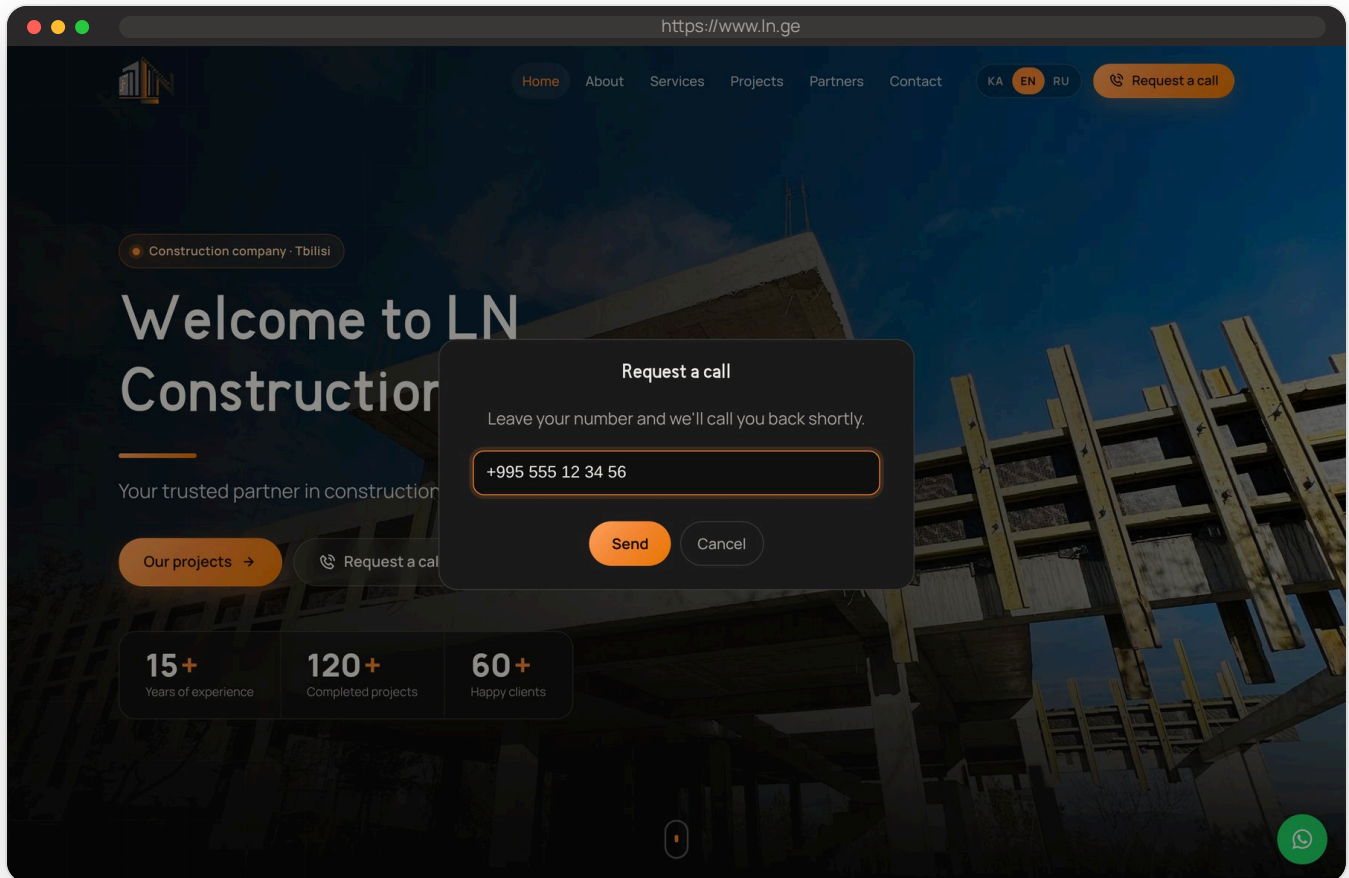


Fig. 11. "Request a call" — a single phone field in a dialog

- **Request a call** — header and hero button; the number is validated (6–15 digits, + () - allowed).
- **Contact form** — name, e-mail, subject, message; fields are checked before sending and highlighted if invalid.
- **Footer call-back form** and a **WhatsApp** button with the company number.
- **Spam protection** — hidden honeypot field and a 20-second limit per visitor, without annoying captchas.
- **Honest feedback** — if the e-mail cannot be sent, the visitor is told so and asked to call, instead of a fake "sent".

■ Branded e-mail templates

All e-mails share one branded layout: the LN logo on a graphite header, an orange accent line, a clean white body and the company contacts in the footer. They are built with tables, so they look the same in Gmail, Outlook and on the phone.

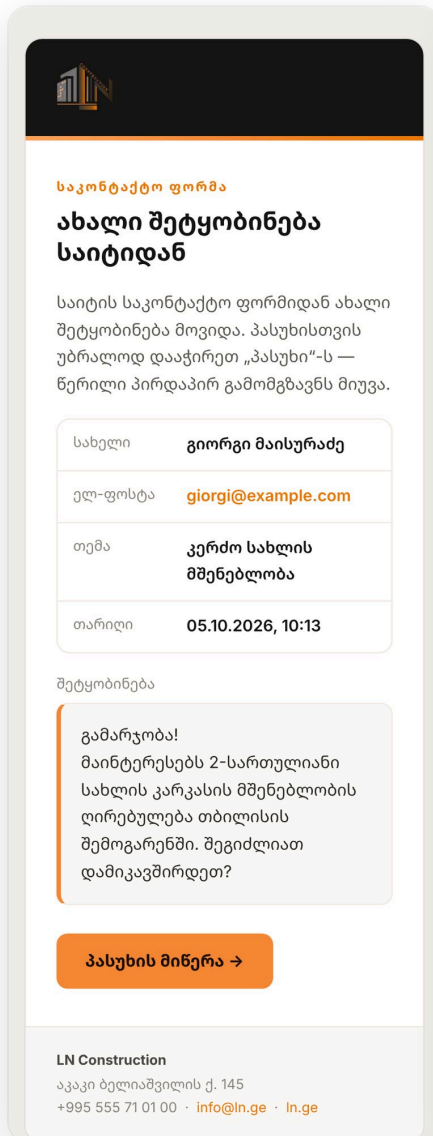


Fig. 12. Contact form e-mail

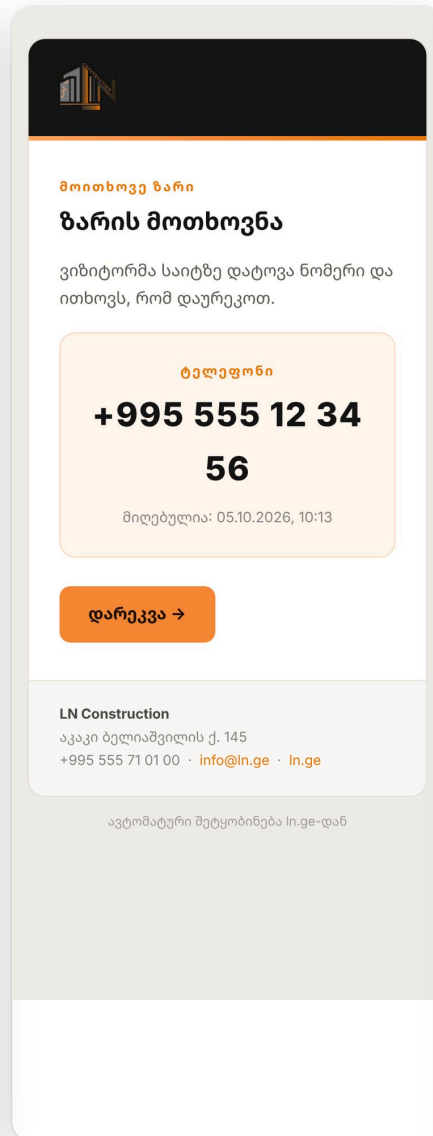


Fig. 13. Call request e-mail



Fig. 14. Admin sign-in code

- **Contact form** — details as a tidy table, the message highlighted, and a “Reply” button; replying goes straight to the visitor.
- **Call request** — the phone number in large type with a one-tap “Call” button and the time it was received.
- **Admin sign-in code** — a 6-digit code, valid for 10 minutes; its text can be changed in the admin panel.
- Sending method is selectable in the admin: the hosting server’s own mail (no password needed) or any SMTP mailbox. A “send test e-mail” button checks it in one click.

05 Three languages – KA · EN · RU

The whole site works in Georgian, English and Russian. The language is switched with text labels in the header and remembered for the visit; each language has its own URL for search engines.

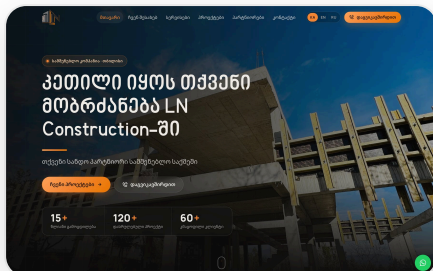


Fig. 15. KA

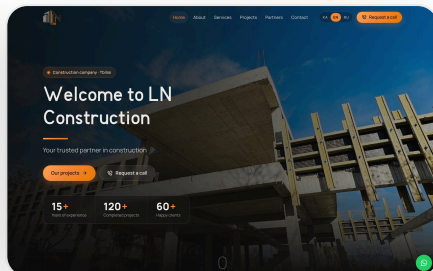


Fig. 16. EN

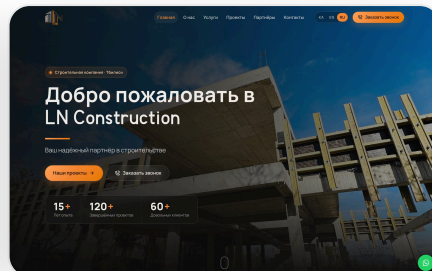


Fig. 17. RU

- Every text on the site – menu, headings, buttons, form messages, footer, privacy policy – comes from the database and is editable in three languages.
- Search engines get **hreflang** links for all three versions, a meta description and Open Graph data for nice link previews in Facebook and messengers.
- Georgian headings use the **BPG Nino Mtavruli** font; Latin and Cyrillic use **Manrope**; body text uses **Noto Sans Georgian**.

■ A text is never missing



If a text has not been translated yet (for example a new Russian page), the site automatically shows the best available version in this order, so a raw technical key never appears to visitors.

06 Admin panel

The admin panel is a separate, closed area with a sidebar menu and nine sections. It is designed in the same dark style as the site, works on the phone, and every action ends with a short confirmation message.

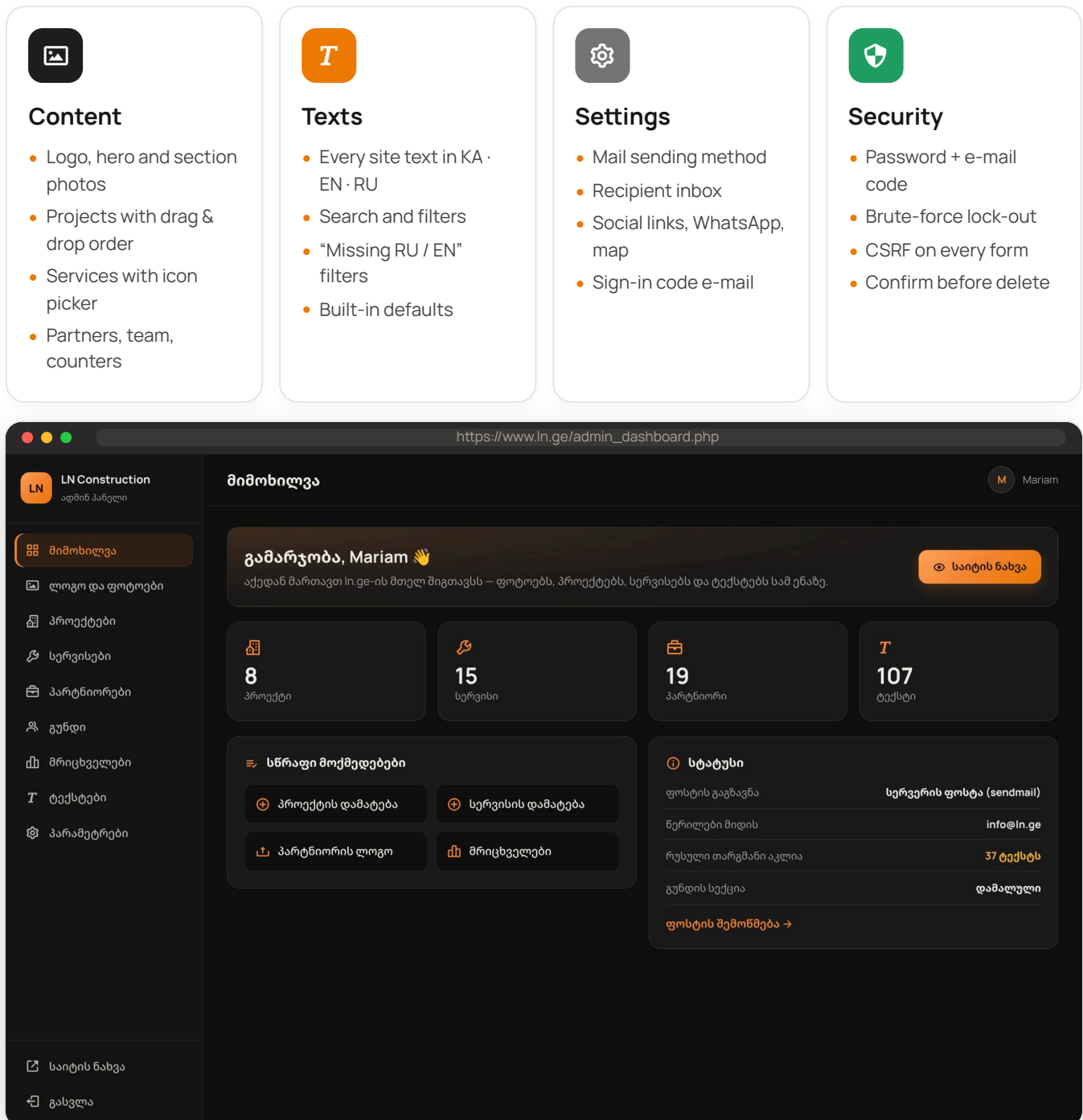


Fig. 18. Overview — key numbers, quick actions and system status

Two-step sign-in

Sign-in is a single card with three short steps. After a correct password the admin enters an e-mail address and receives a one-time code.

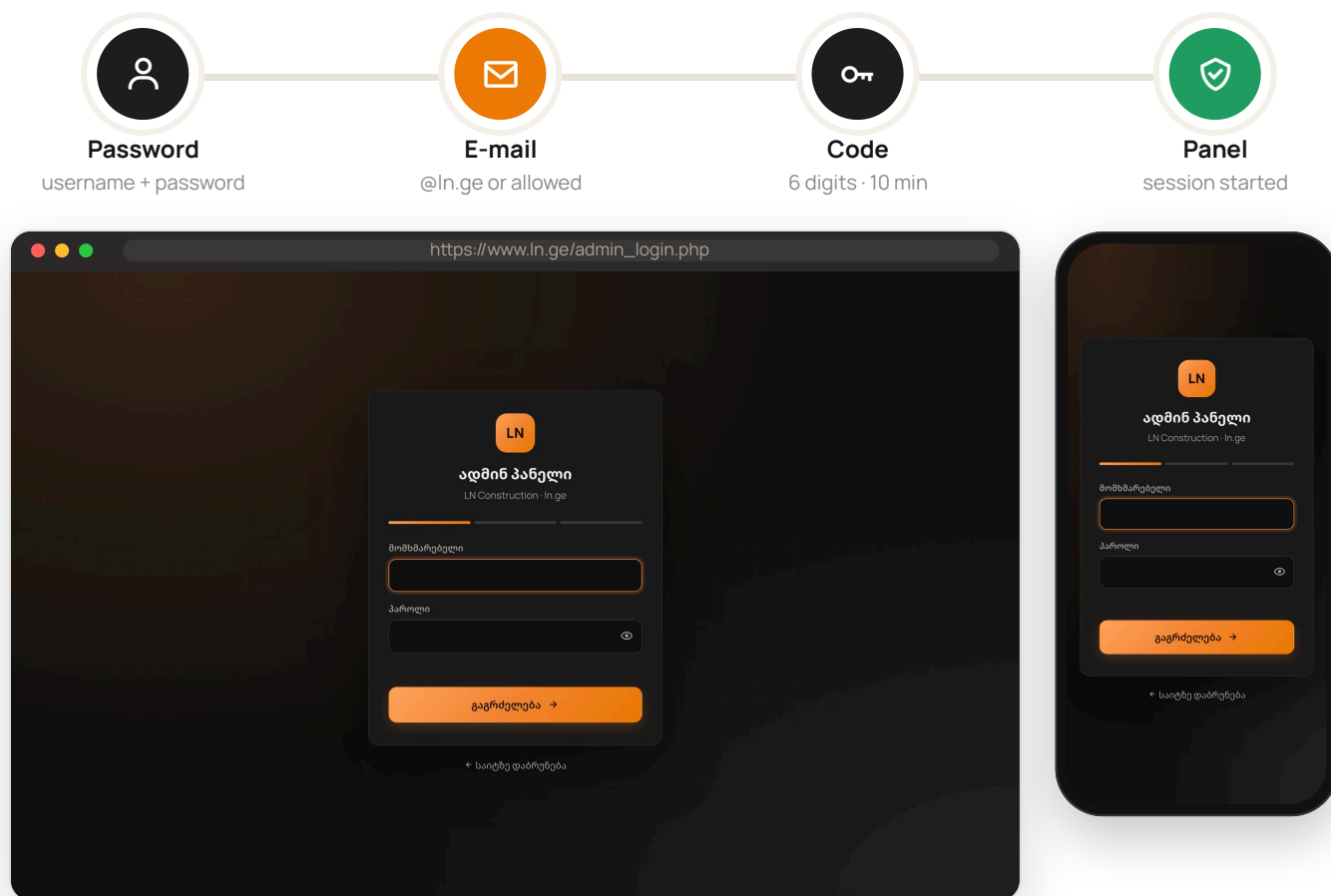


Fig. 19. Sign-in page (desktop and phone)

- Codes are sent only to @ln.ge addresses or to extra addresses the admin allows in Settings.
- Five wrong passwords lock the account for 15 minutes; the code has 5 attempts and expires in 10 minutes; re-sending is limited.
- The session is renewed after every successful step and destroyed completely on sign-out.

07 Content management

All visual content of the site is managed from the panel. Uploads are checked (real image type, size up to 12 MB) and saved under random names; when a photo is replaced, the old file is deleted from the server.

Logo and photos

The logo, the hero background, the “About” photo and the statistics photo – each with a preview, a recommended size and one-click replace.

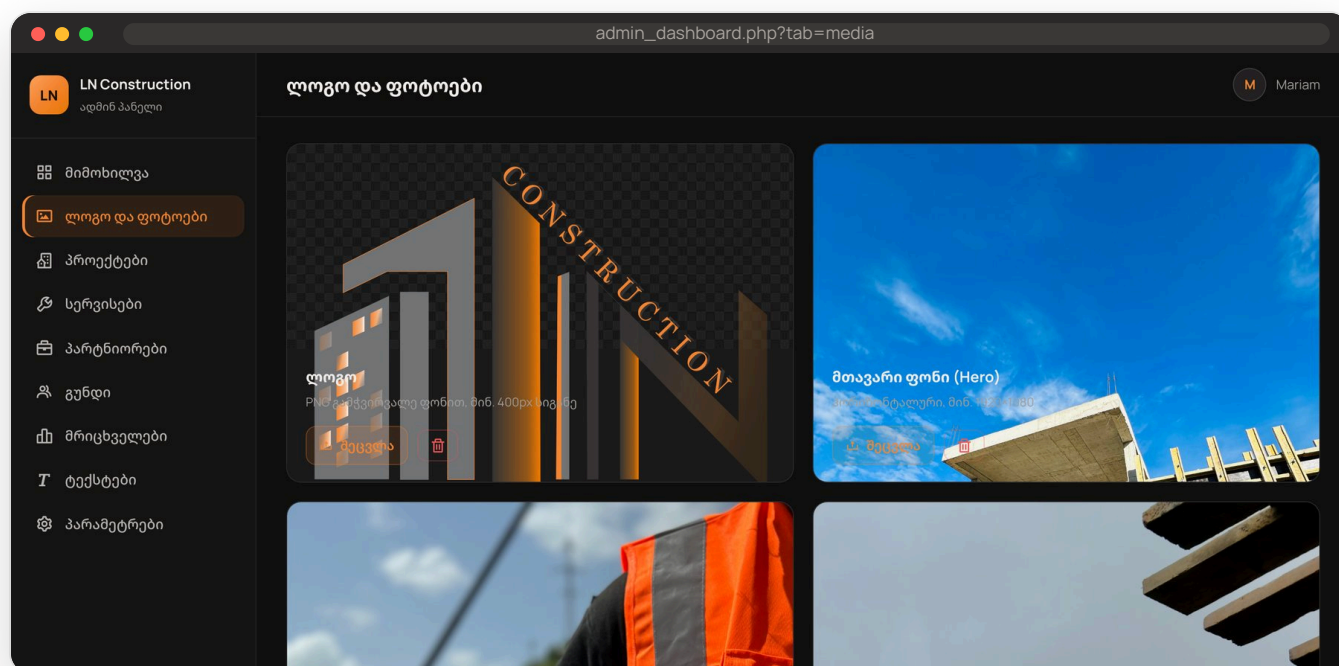


Fig. 20. Logo and photos

Projects

Projects are shown as photo cards. The title and description are edited right on the card in three languages (tabs KA · EN · RU, a dot marks an empty language).

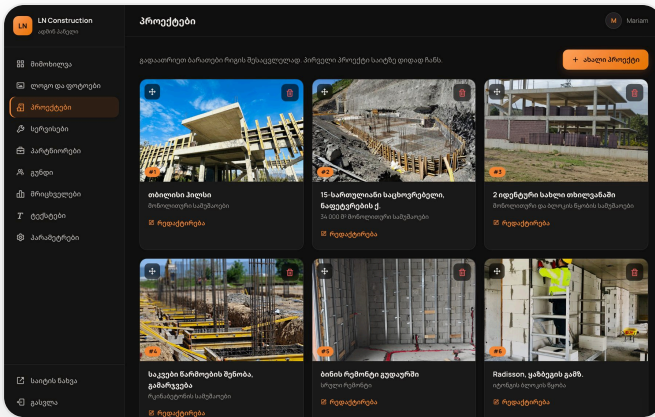


Fig. 21. Projects as cards

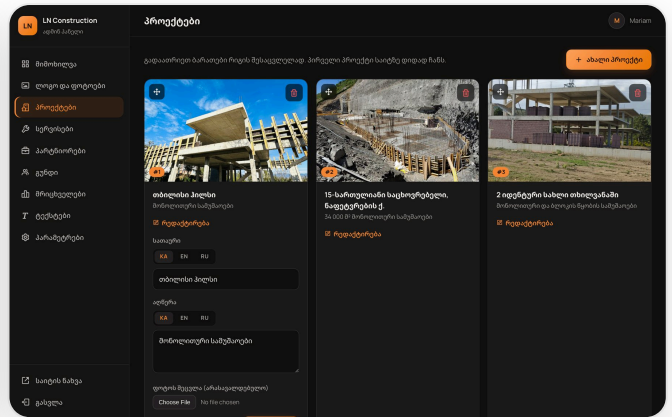


Fig. 22. Editing a project in three languages

- Drag & drop by the handle changes the order on the site; the first project becomes the large one.
- New project: drop a photo (with instant preview), add titles – the number and text keys are created automatically.

Services

Each service shows its icon, number, title and which languages are filled in. The icon is chosen from a searchable gallery of hundreds of icons with live preview.

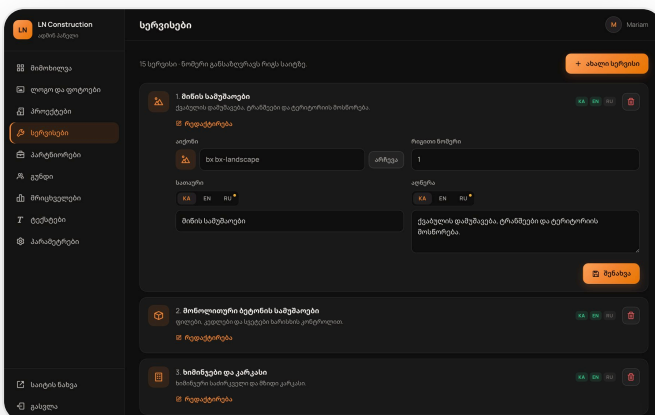


Fig. 23. Editing a service

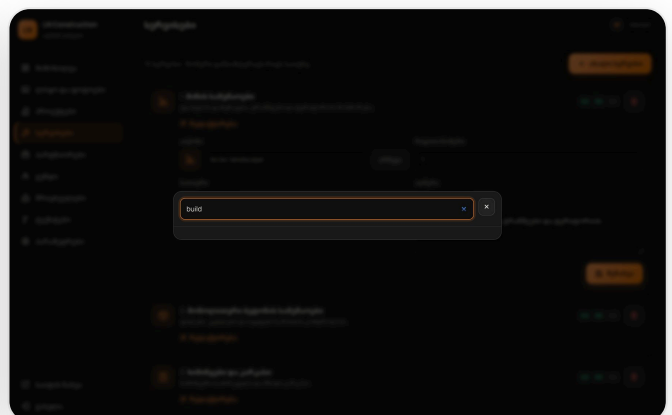


Fig. 24. Searchable icon picker

Partners

Several logos can be uploaded at once; they are shown on white tiles exactly as on the site and deleted with a confirmation.

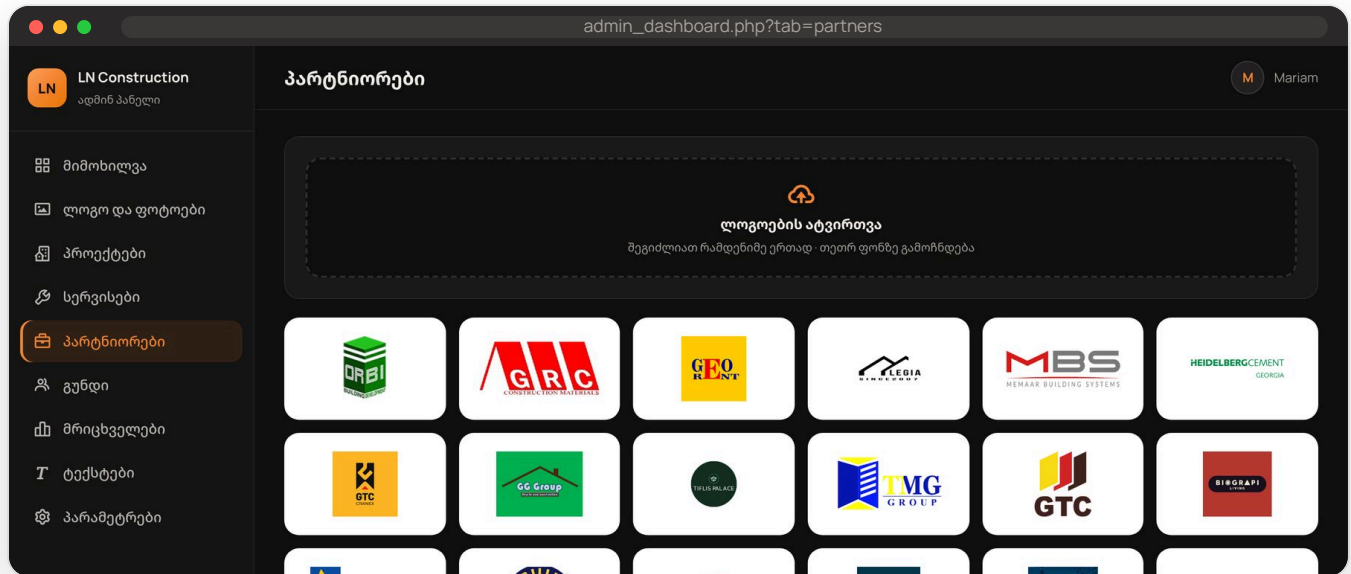


Fig. 25. Partner logos

Counters

Five numbers for the hero and the statistics section: years of experience, completed and ongoing projects, clients, achievements.

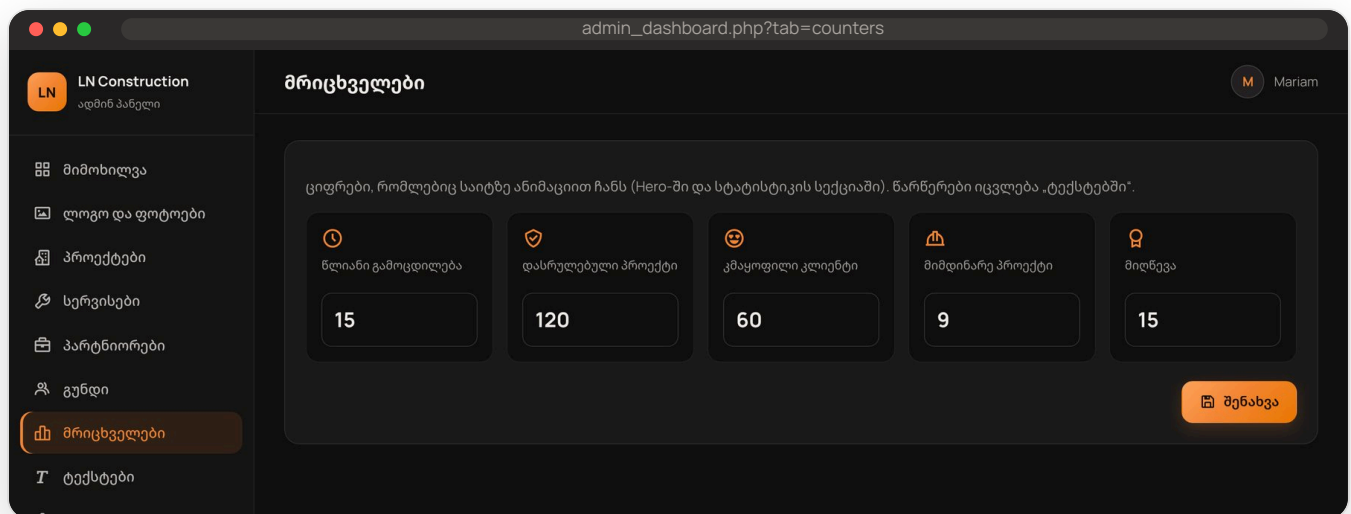


Fig. 26. Counters

Team

Team members with photo, name and position in three languages. The whole team section (and its menu item) can be shown or hidden on the site with a single switch.

08 Texts and translations

Every text of the site is listed in one place. Each row shows the text key, a preview and coloured badges for Georgian, English and Russian, so missing translations are visible at a glance.

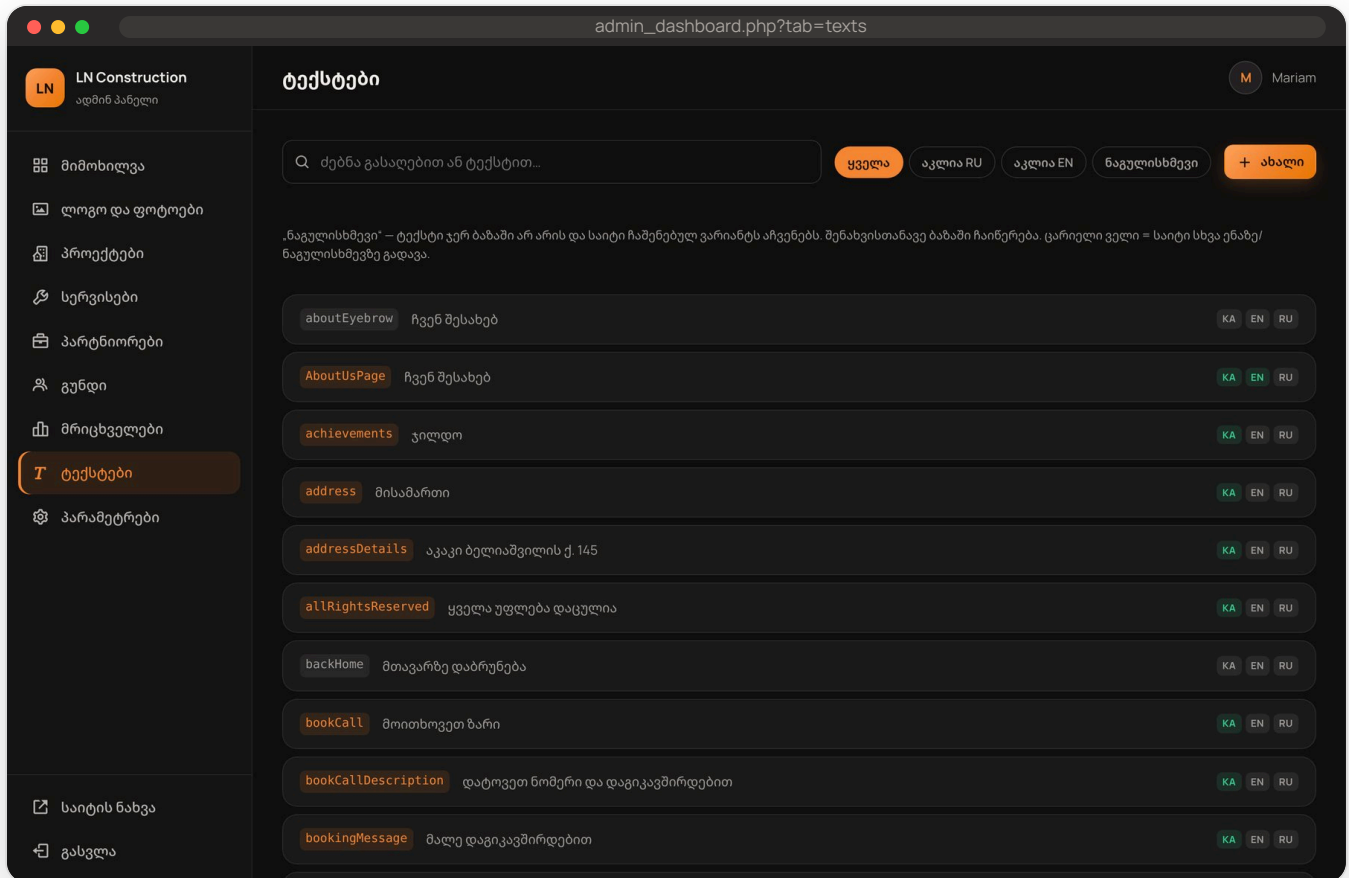


Fig. 27. Texts — search, filters and language badges

- Instant search by key or by any word of the text; filters “Missing RU”, “Missing EN” and “Default”.
- Texts that are not in the database yet show the built-in default as a hint and can be inserted with one click.
- Empty field = that language falls back automatically (see section 05); new keys can be added for future blocks.

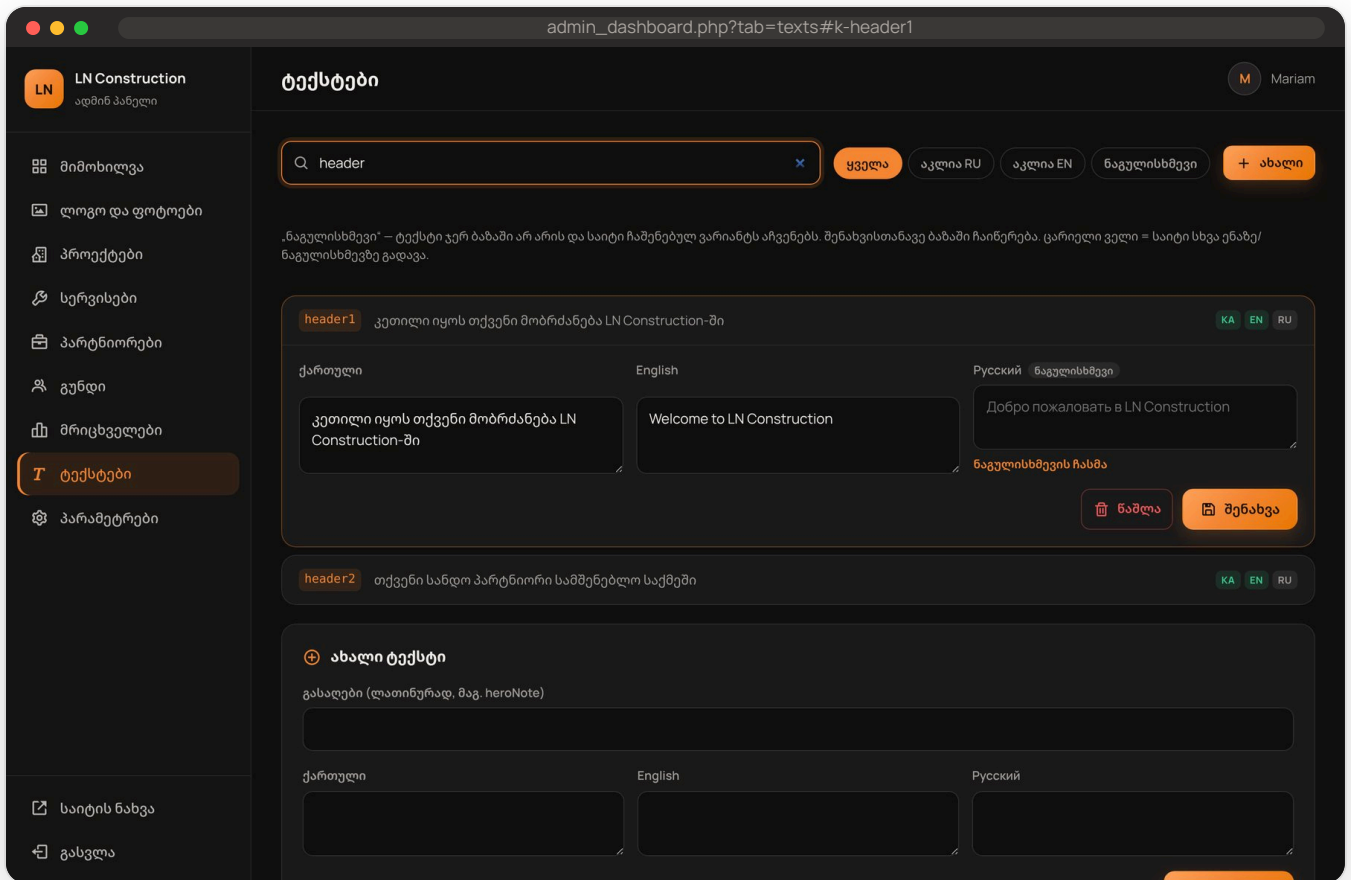


Fig. 28. Editing one text in three languages side by side

Clear feedback

Every save shows a short toast; every delete asks for confirmation first; validation errors keep the typed values, so nothing has to be entered twice.

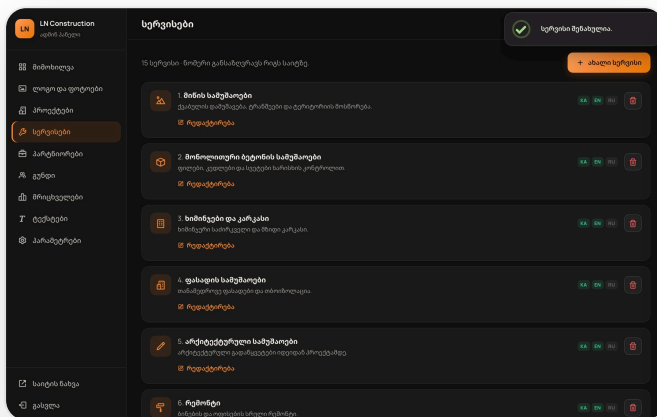


Fig. 29. Success message

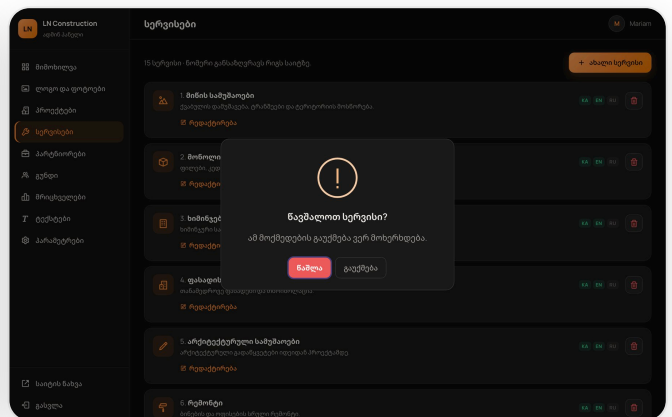


Fig. 30. Confirmation before delete

Settings collect everything that used to be hard-coded: how e-mails are sent and where they arrive, social links, the WhatsApp number and the map address.

პარამეტრები M Mariam

საიტის ფორმებიდან („კონტაქტი“, „მოითხოვე ზარი“) და ადმინის შესვლის კოდი ამ პარამეტრებით იგზავნება.

სერვერის ფოსტა
რეკომენდებული - პაროლი არ სჭირდება

გამგზავნის მისამართი (From)
no-reply@ln.ge

წერილები მოვიდეს მისამართზე
info@ln.ge

SMTP
მაგ. cPanel-ის საფოსტო ყუთი

გამგზავნის სახელი
LN Construction

ადმინის კოდის დამატებითი მისამართები
name@gmail.com, ...
@ln.ge მისამართები ყოველთვის დაშვებულია

SMTP host
mail.ln.ge

Port
465

დაცვა
SSL (465)

მომხმარებელი

პაროლი

სოციალური ქსელები და რუკა

Facebook
https://www.facebook.com/profile.php?id=100094514566415

Instagram
https://www.instagram.com/ln.construction_/

LinkedIn
https://www.linkedin.com/company/lnconstruction/

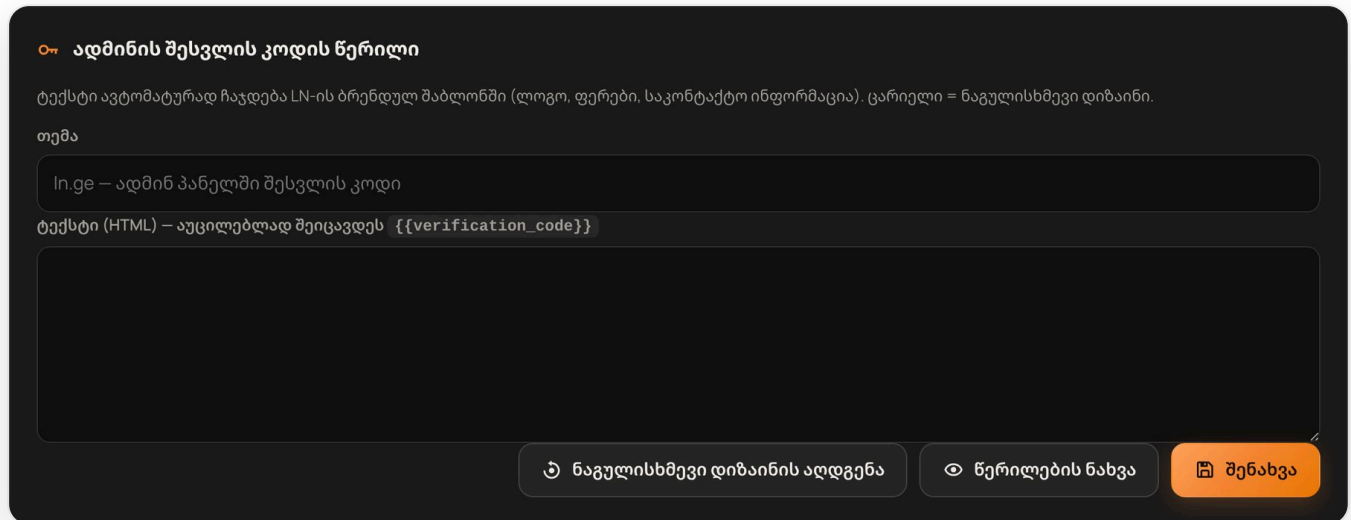
WhatsApp ნომერი
995557343335

Fig. 31. Mail settings with SMTP options

- **Server mail** (recommended) – uses the hosting’s own mail system, no password stored. **SMTP** – any mailbox, the password is kept and never shown back.
- Sender address and name, the inbox that receives leads, and extra addresses allowed to receive the admin code.
- Facebook, Instagram, LinkedIn, WhatsApp and the map address – changes appear on the site immediately.

■ Sign-in code e-mail

The subject and text of the code e-mail can be edited; the text is placed inside the branded layout automatically. One button restores the default design, another opens a preview of all three e-mails.



ადმინის შესვლის კოდის წერილი

ტექსტი ავტომატურად ჩაადება LN-ის ბრენდულ შაბლონში (ლოგო, ფერები, საკონტაქტო ინფორმაცია). ცარიელი = ნაგულისხმევი დიზაინი.

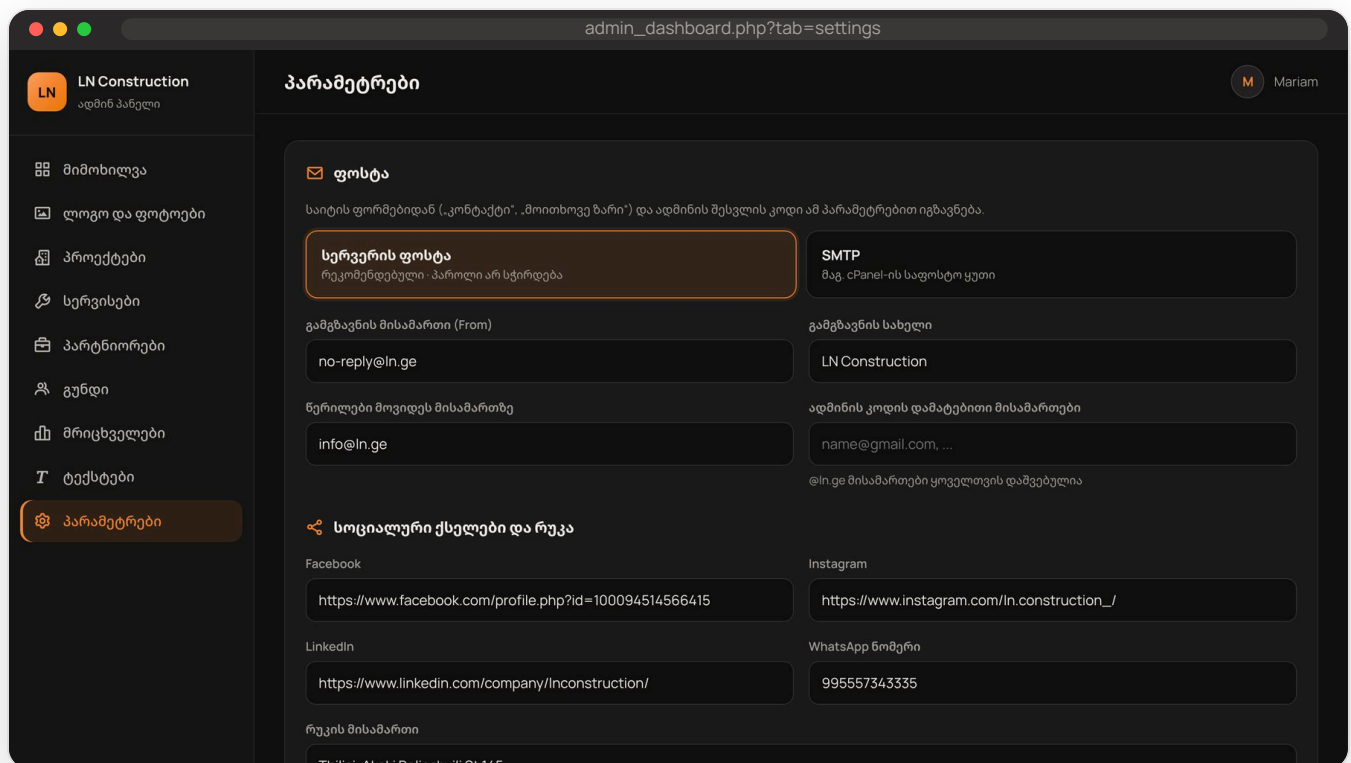
თემა

In.ge — ადმინ პანელში შესვლის კოდი

ტექსტი (HTML) — აუცილებლად შეიცავდეს `{{verification_code}}`

ნაგულისხმევი დიზაინის აღდგენა წერილების ნახვა შენახვა

Fig. 32. Sign-in code e-mail template



admin_dashboard.php?tab=settings

LN Construction ადმინ პანელი

პარამეტრები M Mariam

ფოსტა

საიტის ფორმებიდან („კონტაქტი“, „მოითხოვე ხარი“) და ადმინის შესვლის კოდი ამ პარამეტრებით იგზავნება.

სერვერის ფოსტა
რეკომენდებული - პაროლი არ სჭირდება

SMTP
მაგ. cPanel-ის საფოსტო ყუთი

გამგზავნის მისამართი (From)

no-reply@ln.ge

გამგზავნის სახელი

LN Construction

წერილები მოვიდეს მისამართზე

info@ln.ge

ადმინის კოდის დამატებითი მისამართები

name@gmail.com, ...

@ln.ge მისამართები ყოველთვის დაშვებულია

სოციალური ქსელები და რუკა

Facebook

https://www.facebook.com/profile.php?id=100094514566415

Instagram

https://www.instagram.com/ln.construction_/

LinkedIn

https://www.linkedin.com/company/lnconstruction/

WhatsApp ნომერი

995557343335

რუკის მისამართი

Tbilisi, Akaki Beldashvili St.145

Fig. 33. Settings — socials, WhatsApp and map

10 Mobile version

The site was designed for the phone first. Sections stack, the menu becomes a full-screen panel with a tap-to-call button, services become compact rows and projects a two-column grid. Safe areas of modern phones are respected.

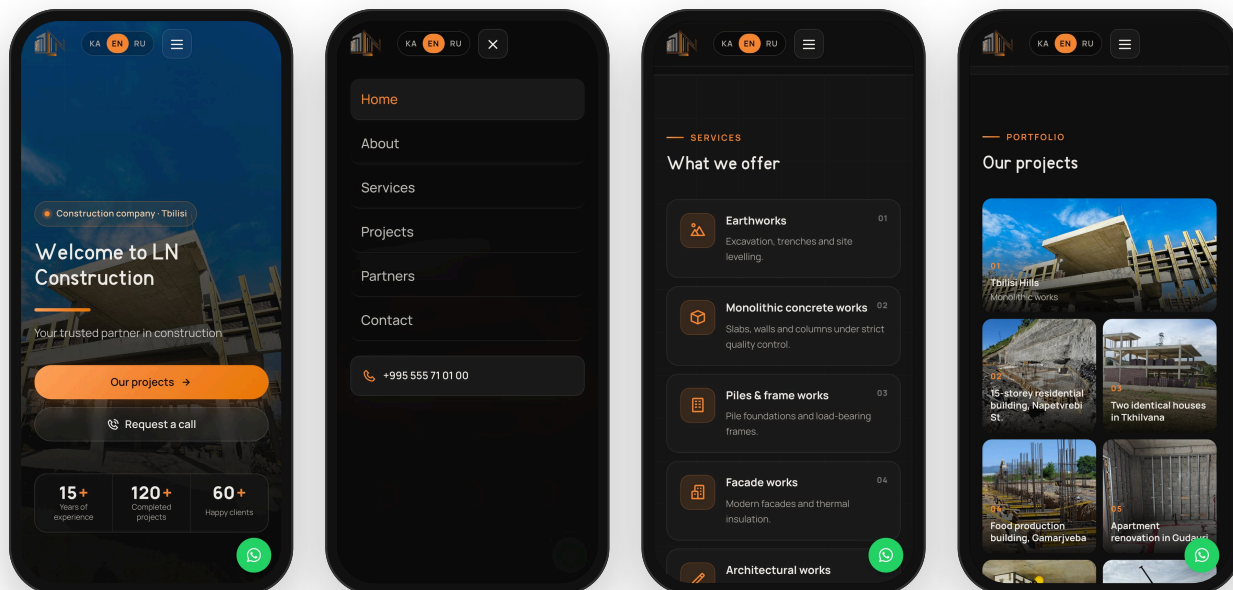


Fig. 34. Phone: hero, menu, services, projects

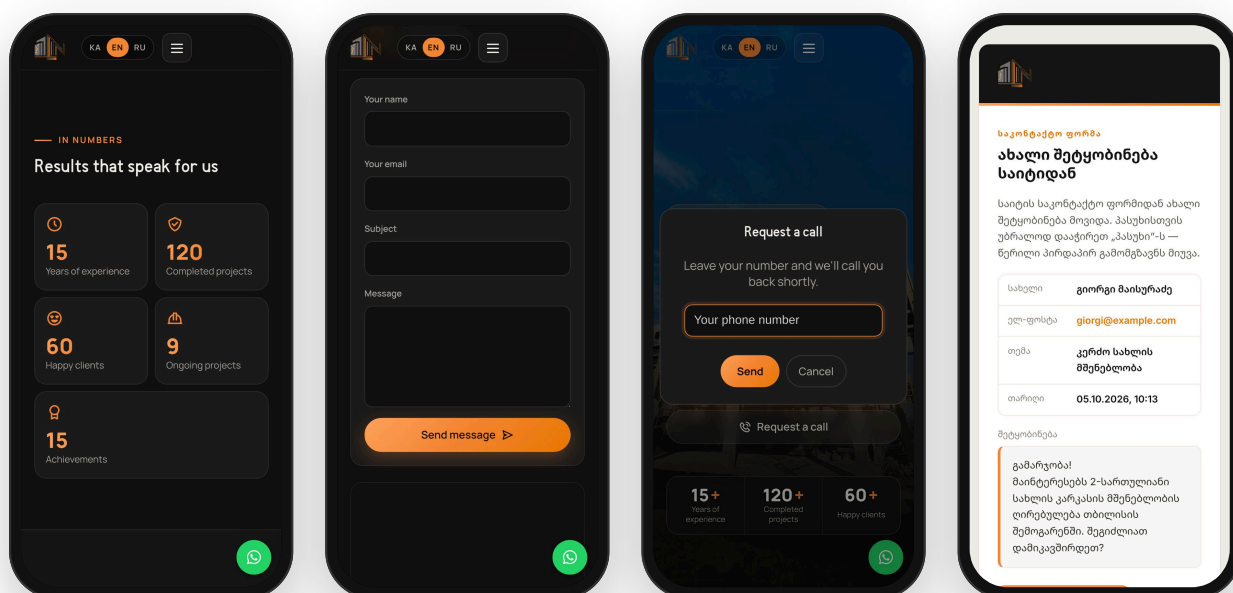


Fig. 35. Phone: numbers, contact form, call request, e-mail

Admin panel on the phone

The sidebar turns into a slide-out menu, cards stack in one column and tables become lists — content can be updated from a construction site.

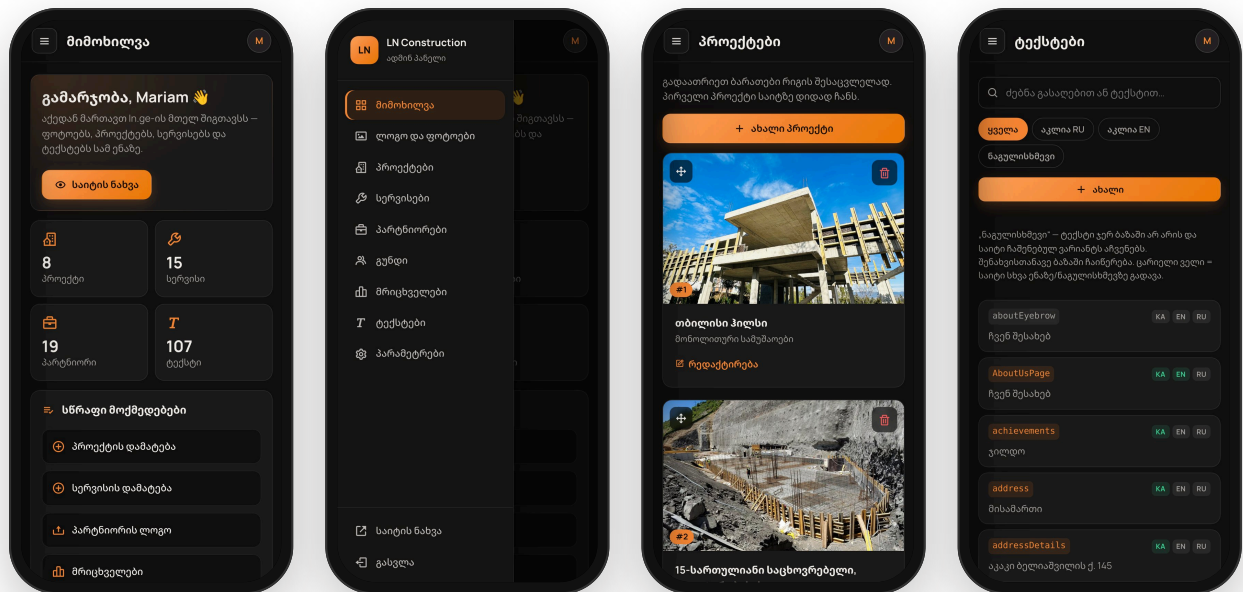


Fig. 36. Admin on the phone: overview, menu, projects, texts

- Touch-friendly buttons, numeric keyboard for phones and codes, one-time-code autofill on sign-in.
- Animations respect the “reduce motion” system setting.

Security and reliability

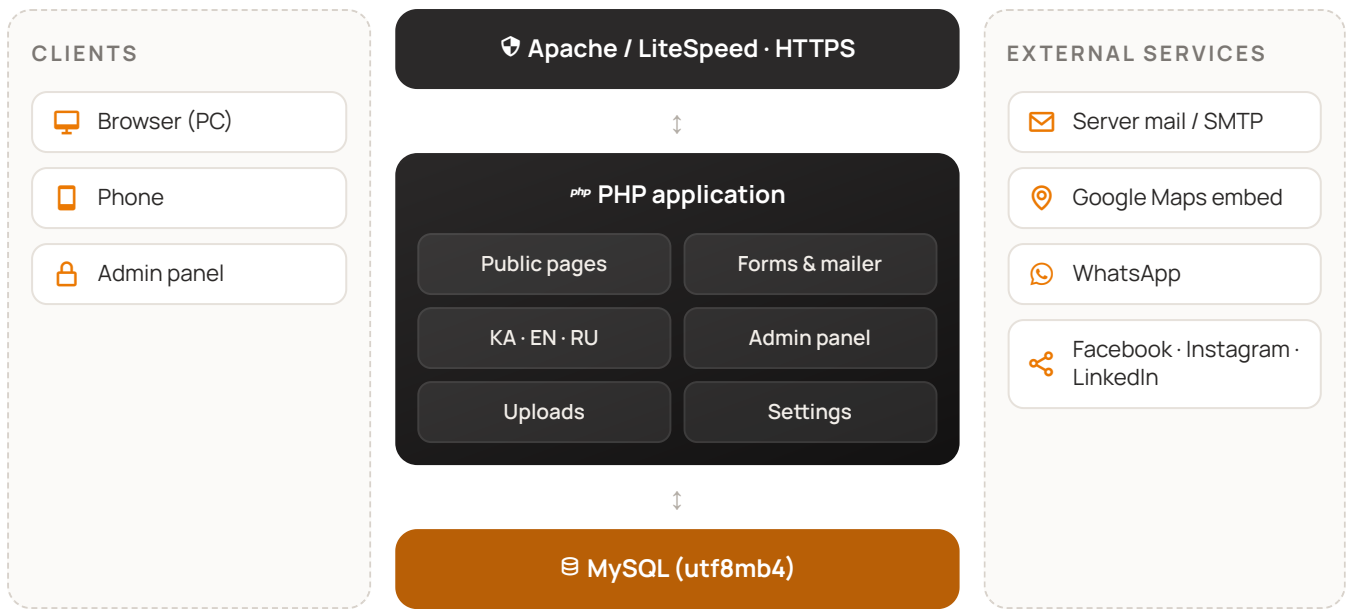
- **Admin access:** password + one-time e-mail code; brute-force lock-out; session renewed on sign-in and destroyed on sign-out.
- **Passwords:** modern password hashes are supported alongside the existing ones, so they can be upgraded without breaking sign-in.
- **CSRF protection** on every admin form and on the sign-in steps.
- **SQL safety:** all queries with user data use prepared statements.
- **Uploads:** only real images (type is checked inside the file), size limit, random file names; files are deleted only inside the uploads folder.
- **Errors** are logged on the server and never shown to visitors.
- **Server rules:** logs, backups and config files cannot be downloaded from the web; HTTPS is enforced.
- **E-mail:** the sender is always the company address; visitor input never controls mail headers.

■ Audit of the old site

During the redesign the old code was reviewed and the following was fixed:

- Text pages that could be changed or deleted without signing in now require the admin session.
- Several pages built SQL from URL parameters — rewritten with safe queries.
- A diagnostic page that revealed server details publicly was disabled.
- A broken mail login and a gallery script that was never loaded were fixed.

12 Technology and architecture



Backend	PHP 8.3 · mysqli with prepared statements · PHPMailer
Database	MySQL / MariaDB (utf8mb4) — existing schema kept, one new settings table
Frontend	Custom CSS design system (dark theme) · vanilla JavaScript · SweetAlert2 · GLightbox · SortableJS · Boxicons
Fonts	BPG Nino Mtavruli · Noto Sans Georgian · Manrope
E-mail	Server mail (sendmail) or SMTP — selectable in the admin; branded HTML templates
Languages	Georgian · English · Russian with automatic fallback; hreflang, meta description, Open Graph
Hosting	cPanel · HTTPS redirect · .htaccess protection of logs, backups and config files
Mobile	Mobile-first responsive layout · full-screen menu · touch-friendly controls

■ Why this approach



In LN's own colours

Orange, graphite and steel from the logo — not a generic template.



Fully manageable

Photos, projects, services and every text in three languages from the panel.



Mobile first

Designed for the phone — both the site and the admin panel.



Leads that arrive

Working forms, branded e-mails and a one-click test.

■ Delivered work

- UI/UX design of the public site and the admin panel
- Front-end and back-end development on the existing database
- Three-language content system with built-in defaults
- Mail delivery fix and branded e-mail templates
- Security review and hardening
- Deployment support on the company's cPanel hosting

① Screenshots were taken on a staging copy of the site. Some numbers, texts and people shown are demo content.