

Infrastructure Rehabilitation: Technical Capabilities & Experience



Since 1984, International Medical Corps has led the way in responding to conflict, disasters and disease in some of the world's most fragile settings. We focus on strengthening the resilience of crisis-affected communities, helping them recover and build their capacity to respond to future crises.

With continuous programs in Ukraine since 2014, we rapidly increased our operations in response to Russia's full-scale invasion in February 2022. Today, we maintain eight offices and provide essential services in 15 oblasts nationwide, with programming covering comprehensive healthcare support;

infrastructure rehabilitation; water, sanitation and hygiene (WASH); physical rehabilitation; mental health and psychosocial support (MHPSS); and gender-based violence (GBV) prevention and response.

Our expertise spans the humanitarian–development nexus, making us particularly qualified to address Ukraine's unique challenges. Our humanitarian credentials enable us to access hard-to-reach areas of the country, and our experience enables us to employ proven approaches to delivering high-quality programs in sensitive contexts.

We also work closely with local communities that have faced the effects of conflict. Through responsive and adaptive programming, we support those communities by addressing capacity gaps, responding to immediate needs and working together to design solutions that build resilience.



International Medical Corps' global operations have long involved providing infrastructure rehabilitation and WASH interventions in conflict-affected areas. Working with health facilities, centers for internally displaced persons (IDPs) and other communal spaces, such as homes for the elderly, we repair and refurbish structures and restore water-supply and sewage systems.



HEALTH FACILITY REHABILITATION

We rebuild facilities damaged by conflict and natural disasters around the world.



COMPLEX CONSTRUCTION PROJECTS

We coordinate large-scale infrastructure works under difficult circumstances, including operating in dangerous environments with disrupted supply chains.



WASH INTERVENTIONS

We drill boreholes, install filtration systems and rehabilitate public water networks to ensure reliable access to clean water in disaster zones.

Since February 2022, attacks in Ukraine have targeted key civilian infrastructure, with the estimated cost of the damage surpassing \$150 billion. Some 1,600 hospitals and health facilities have been damaged, while 400 have been destroyed. The cost to restore all these facilities is estimated at \$2.9 billion. In this context, International Medical Corps' infrastructure rehabilitation experience has been invaluable. Our projects focus on the following areas.

- ▶ **Structural repairs:** Restoring damaged health facilities through repairs, including fixing roofs, walls and windows.
- ▶ **Facility hardening:** Installing blast-resistant doors and shatterproof windows to protect against future attacks.
- ▶ **Bunkerization:** Upgrading hospital basements to serve as bomb shelters, enabling staff to continue providing lifesaving care during air raids.
- ▶ **Systems restoration:** Repairing electrical, heating and septic systems to ensure continuous operations.
- ▶ **Accessibility:** Enhancing facilities with ramps for persons with disabilities and supportive infrastructure, including toilet facilities.
- ▶ **Winterization:** Providing reliable power supplies through the installation of heating systems.



INFRASTRUCTURE HIGHLIGHTS

Since February 2022, International Medical Corps has provided various types of support to more than 400 facilities and carried out infrastructure work at 81. This has helped facilities resume operations and—in some cases—operate more efficiently and safely than before. Examples include the following.

- ▶ **Bashtanka Regional Multidisciplinary Hospital:** We refurbished the bomb shelter and installed a new heating system.
- ▶ **Chernihiv Central District Hospital:** We completed comprehensive repairs to operating rooms and the departments for admissions, neurology and communicable diseases.
- ▶ **Chernihiv Tuberculosis Hospital:** We repaired and upgraded the facilities and installed oxygen systems, ensuring continuous care for patients.
- ▶ **Izium Hospital:** Within 72 hours of the city's liberation, we installed an emergency water distribution system to serve the community.
- ▶ **Kharkiv Modular Hospital:** We set up a new hospital to replace the destroyed City Polyclinic No. 10, enabling continued trauma care, surgeries and outpatient care to the community.



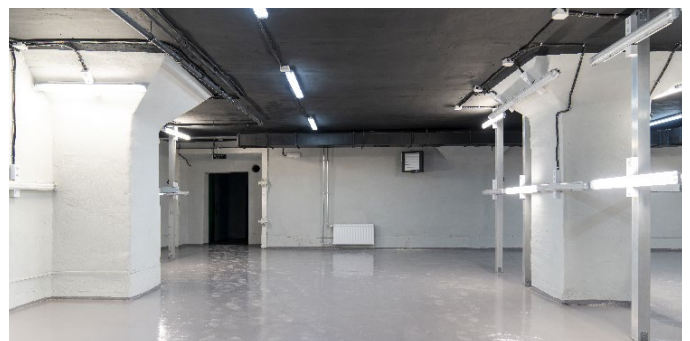
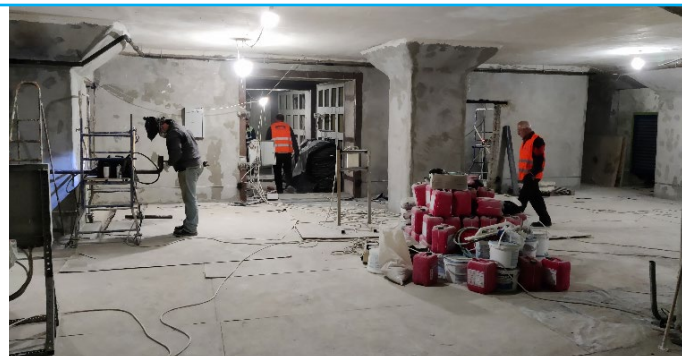
- ▶ **Odesa Maternity Hospital No. 5:** We refurbished the main bomb shelter, including a maternity unit; repaired walls, ceilings, floors, and the electricity and heating systems; and installed ventilation and fire-alarm systems.
- ▶ **Odesa Regional Clinical Hospital:** We refurbished the bomb shelter, drilled a borehole and installed a water-purification system to provide a steady source of clean water for the facility.

WATER, SANITATION AND HYGIENE

The crisis in Ukraine has intensified WASH needs: 9.6 million people now require water and sanitation services. International Medical Corps is addressing these needs through projects in health facilities, IDP shelters and communities, working closely with local authorities to ensure sustainability. This has included our rapid response to the 2023 Kakhovka dam breach, which caused more than 1 million people to lose access to drinking water.

International Medical Corps' WASH efforts focus on the following.

- ▶ **Health facilities:** Strengthening healthcare delivery by establishing safe water supplies, sanitation infrastructure, handwashing facilities and solid-waste management—including medical waste—training healthcare staff in infection prevention and control, and training staff in cleaning protocols.
- ▶ **Water access:** Ensuring safe and sustainable water for personal and institutional use through boreholes, wells, water-supply network rehabilitation and pump replacements.
- ▶ **Sanitation:** Improving Ukraine's sanitation system by rehabilitating sewer lines, providing emergency toilet services, donating and replacing sanitary fixtures, and supplying essential tools and equipment.



WASH HIGHLIGHTS

Since February 2022, International Medical Corps has provided WASH services across Chernihivska, Dnipropetrovska, Donetsk, Kharkivska, Khersonska, Kyivska, Mykolaivska and Odeska oblasts, including the following.

Water systems and boreholes

- ▶ International Medical Corps restored water access at major facilities like Odesa Regional Hospital and Odesa Children's Hospital by installing boreholes and filtration systems benefiting thousands of people.
- ▶ The boreholes we have drilled, including a borehole at Odesa Regional Clinical Hospital, currently support 2.5 million residents, a service that is especially critical during power outages.

- ▶ In areas with damaged infrastructure, we have provided more than 1.6 million liters of potable water to more than 50 communities via mobile units.
- ▶ We operate mobile water treatment units that can treat 1,500 liters of water per hour.

Community shelters and protection

- ▶ **Bomb shelter rehabilitation:** International Medical Corps has upgraded bomb shelters at Bashtanka Hospital, Odesa Maternity Hospital No. 5, and Odesa Regional Clinical Hospital, adding blast-proofing, ventilation and essential systems that are able to support hundreds of patients during attacks.
- ▶ **Heating system installation:** We installed a solid-fuel backup heating unit in Bashtanka Hospital, ensuring warmth for patients and staff during winter outages.



COORDINATION AND SUSTAINABILITY

International Medical Corps coordinates with the Ukrainian government, the United Nations Cluster system and local authorities, using needs assessments to guide planning. Leveraging our extensive experience in infrastructure construction and rehabilitation, International Medical Corps aligns with stakeholders, ensures sustainable operations and involves local communities—including women and vulnerable groups—in decisionmaking. Complying with local regulations, we provide cost estimates and collaborate with hospitals, water utilities and government bodies.

FUTURE SUPPORT

As conflict persists in Ukraine, attacks on critical infrastructure can leave millions without essential services. Drawing on our expertise, International Medical Corps is committed to immediate relief and long-term recovery, working alongside the Ukrainian government. We have plans to:

- ▶ rehabilitate healthcare facilities, bomb shelters and water/ sewage pipelines, and install alternative energy sources;
- ▶ provide solar-powered water heaters and lighting in health facilities, enhancing hygiene;
- ▶ improve sanitation with safe waste disposal and medical-waste incinerators;
- ▶ restore access to clean water through infrastructure repairs, treatment systems and new boreholes;
- ▶ conduct a water-balance study for sustainable, climate-resilient water solutions; and
- ▶ design a sustainable water system for towns with fewer than 200,000 residents, focusing on engineering and financial sustainability.

LESSONS LEARNED

International Medical Corps has learned valuable lessons implementing challenging infrastructure projects within Ukraine's complex regulatory environment.

- ▶ **Permits and compliance:** Close collaboration with the Ministry of Health and local authorities is essential to expediting approvals and maintain compliance.
- ▶ **Supply chain and security:** Despite security risks and supply disruptions, we have been able to successfully complete large-scale projects by leveraging national networks and private-sector partners.
- ▶ **Adaptable timelines:** Flexibility in timelines and project phases has proven vital, enabling adjustments in real time based on security conditions.



www.InternationalMedicalCorps.org

A pre-eminent first responder since 1984, International Medical Corps delivers emergency medical and related services to those affected by conflict, disaster and disease, no matter where they are, no matter what the conditions. We also train people in their communities, providing them with the skills they need to recover, chart their own path to self-reliance and become effective first responders themselves.

November 2024

FOR MORE INFORMATION, CONTACT:

Matthew Stearns, Country Director
mstearns@InternationalMedicalCorps.org

Holly Connor, Head of Grants Administration & Reporting
hconnor@InternationalMedicalCorps.org

International Medical Corps is headquartered in Los Angeles, CA, and has offices in Washington, DC; London, UK; and Split, Croatia.

For contact information, visit [InternationalMedicalCorps.org/contact](https://www.InternationalMedicalCorps.org/contact).