2022 was a busy year for CartONG, not only in terms of supporting our humanitarian and development partners in their operations, but also in the development and structuring of our organization. The beginning of the year was marked by the invasion of Ukraine. Our specialists were immediately mobilized to provide support to MSF GIS Centre and two of them were deployed in the field for long-term GIS missions. In addition, we supported Terre des hommes’ regional response through the development of a global information management and mobile data collection system. As part of this support, two staff members were deployed to Romania, Hungary and Moldova to analyze the needs and train the teams on data collection tools.

Beyond the war in Ukraine, the possibility to resume field missions after the limitations due to the COVID-19 pandemic, allowed us to continue and improve the effectiveness of the support provided to our partners. A 3-week deployment to Pakistan in support of UNHCR’s first Health Access and Utilization Survey, for example, helped provide information on how Afghan refugees access health care services in the country and allocate resources where they are most needed in a way that would not have been possible from remote. In parallel to the field missions, we continued our personalized information management support to a wide range of aid actors – such as Acting for Life, Expertise France, FairTrade International, Secours Islamique France, Sidaction, UNICEF, and VENRO.

In support of the sector, CartONG also continued the implementation of its own initiatives. 2022 was marked by the end of the first three-year phase of the project “Strengthening data practices within francophone CSOs”, financed by the AFD, which has seen the launch of the Learning Corner (learn more page 19) and which also allowed CartONG to have its first external project evaluation. This evaluation highlighted the relevance, coherence and overall quality of the project while showing the need for a second phase for the beneficiaries to reinforce the knowledge due to the high amount of resources shared. If some projects ended, many more started, including MapInclusive, which aims at supporting the social inclusion of migrants in Europe through digital mapping with the support of the European Union, and a two-year initiative financed by the French Ministry of Europe and Foreign Affairs to advance responsible data practices within the aid sector. Finally, CartONG organized the 8th edition of the GeOnG forum in the fall, an opportunity to gather our partners and counterparts to exchange, share good practices and learn collectively (learn more page 6).

Internally, in 2022 we focused on restructuring our management and governance processes. A long-term, participatory endeavor resulted in a new governance model – based on collective intelligence – which was adopted in November (learn more page 7) and which has already started to be put in place throughout 2023 (especially with the recruitment of a new Executive Director at the moment of writing this report). In addition, 2022 was also the opportunity to return to face-to-face associative gatherings, with our first in-person staff & volunteer Get-Together in more than two years. 2023 will be without doubt as enriching as 2022 and CartONG will continue to work to strengthen its approach and the relevance of the support to the sector and its partners.

Edmond Wach, President
Lisa Daoud, Vice-president

## TABLE OF CONTENT

<table>
<thead>
<tr>
<th>PRESIDENT’S MESSAGE</th>
<th>Page 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABOUT CARTONG</td>
<td>Page 2</td>
</tr>
<tr>
<td>IN SHORT</td>
<td>Page 3</td>
</tr>
<tr>
<td>Key moments</td>
<td>Page 4</td>
</tr>
<tr>
<td>2022 in numbers</td>
<td>Page 5</td>
</tr>
<tr>
<td>A few highlights</td>
<td>Page 6</td>
</tr>
<tr>
<td>PANORAMA OF 2021</td>
<td>Page 8</td>
</tr>
<tr>
<td>Overview per activity</td>
<td>Page 9</td>
</tr>
<tr>
<td>GIS at CartONG</td>
<td>Page 10</td>
</tr>
<tr>
<td>IM &amp; MDC at CartONG</td>
<td>Page 11</td>
</tr>
<tr>
<td>Participatory mapping at CartONG</td>
<td>Page 12</td>
</tr>
<tr>
<td>Web development at CartONG</td>
<td>Page 13</td>
</tr>
<tr>
<td>Resource Center</td>
<td>Page 14</td>
</tr>
<tr>
<td>Volunteers’ Corner</td>
<td>Page 15</td>
</tr>
<tr>
<td>FINANCIAL REPORT</td>
<td>Page 54</td>
</tr>
<tr>
<td>Acronyms</td>
<td>Page 26</td>
</tr>
<tr>
<td>Acknowledgements</td>
<td>Page 26</td>
</tr>
<tr>
<td>ABOUT CARTONG</td>
<td>Page 55</td>
</tr>
<tr>
<td>A few words about us</td>
<td>Page 56</td>
</tr>
</tbody>
</table>
| Created in 2006, CartONG is a French H2H NGO specialized in Information Management.
Our goal is to put data at the service of humanitarian, development and social action projects.
We are dedicated to improving the quality and accountability of field activities, in particular through better needs assessments and monitoring and evaluation.
We act as a multidisciplinary resources and expertise center, accompanying our partners’ strategies and operations.
Our staff and volunteers also support the community as a whole by producing documentation, building capacities and raising awareness on the technical, strategic and ethical challenges of digital technologies.

Our values

**HUMAN-CENTRIC**
We put the dignity of individuals and populations at the heart of our choices and actions, respecting their rights and the principles of economic, ecological and social justice.

**PROFESSIONALISM**
“Going the extra mile”, we aim for the highest technical quality yet seek pragmatic solutions.

**AGILITY**
An integral part of our DNA, our team is continually looking for ways of innovating and adapting itself to each context and request.

**AUTONOMY**
Thanks to CartONG’s unique organizational structure and continuous transfer of skills, our approach is designed to empower its own members as well as our partners. Our greatest achievement is your autonomy.

**CONNECTEDNESS**
CartONG is a community nurturing mutual support, new relationships and individual fulfillment. We look out for one another, valuing our cultural diversity.

**COLLABORATION**
At all stages of our projects, in the spirit of transparency and sharing, we aim to involve each and every stakeholder.

To learn more about our organization, visit our website at: www.cartong.org

Lisa Daoud, Vice-President
Nicolas Grosjean, Secretary
Patrick Fuchs, Treasurer
Jean-Paul Nicoletti, Conciliator
Florent Bédécarrats, Member of the Board
Maud Hazan, Member of the Board
François-Xavier Dosogne, Member of the Board
Laureène Barlet, Guest volunteer at the Board

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IN SHORT

KEY MOMENTS

January
Launch of the Learning Corner, a subsection of the IM Resource Portal complementing its resource library and blog section by providing practical tools - such as toolboxes and other methodological tools.

February
Beginning of our support to Doctors Without Borders (MSF) operations in response to the war in Ukraine.

March - April - June
Deployment of 2 GIS specialists in support of the MSF GIS Centre as part of their response to the war in Ukraine.

April
Building a lightweight Information Management system for Action Against Hunger to classify and follow up on the severity of a crisis.

May - June
3-week mission in support of UNHCR’s first Health Access and Utilization Survey in Pakistan in order to provide valuable information on how Afghan refugees access health care services in the country.

June
Following the June 22nd 5.9 magnitude earthquake in Afghanistan, our GIS team was immediately mobilized by MSF to provide mapping support to their field teams.

June 18-19th
First in-person Green Day & Get-Together for CartONG staff and members in 2 years!

July
Start of a 6-month training cycle on how to conduct the Monitoring and Evaluation of a project for Expertise France.

August
3 needs assessment field missions - in Moldova, Hungary and Romania - to review Terre des hommes’ Information Management and Monitoring & Evaluation systems.

September
Our GIS team was immediately mobilized by MSF to provide mapping support as part of their response to the disastrous floods in Pakistan.

October 24-25-26th
Hybrid 2022 GeOnG forum with 315 participants from more than 140 organizations and 50 countries!

November
First contribution in editorial cartography to Alternatives Humanitaires magazine for issue 21 “India: a humanitarian countermodel?”, chapter “Disasters in India and the mobilisation of national action”.

November - December
Training UNHCR’s implementing partners in Egypt on Monitoring and Evaluation and the Livelihoods Information System.

December
Two training sessions conducted at IRAM and IRCOM respectively on Mobile Data Collection and Information Management.
2022 IN FIGURES

80+ PARTNERS
supported over the year

41 STAFF including civic service volunteers and interns

64 PROJECTS
completed and/or started during the year

960+ PEOPLE
trained over the year

700+ MAPS
produced this year

2022 was marked by the return of the GeOnG forum, an opportunity for CartoNG and the whole sector to reflect on its practices and share its experiences. The 8th edition of the forum was held for the first time ever in a hybrid format from October 24th to 26th, 2022. Participants were able to enjoy the full experience by attending the event at the local Congress Center in Chambéry. For the participants who could not make the trip to France for the event, there was also a lighter online offer. Get a glimpse of the event by watching the after-movie.

During the 3 days of the conference and through the 46 sessions on the agenda, we invited participants to look into two aspects: how aid practitioners can play an active role in being part of the solution and how they can embrace technologies and approaches that uphold the “do no environmental harm” motto.

One of the main findings of this edition was that we still have much to learn on reducing the environmental impact of our tools and systems, and that we need to ensure we don’t only focus on IT for Green but that we also follow the principles of Green IT. The question of ownership and collaboration concerning data was also looked into through a couple of sessions, with reflections and practices that clearly showed that many actors are becoming more proactive than they used to be, with discussions around the associated power shifts amongst actors of the sector that is needed and the recurring topic of sustainable long-term approaches versus project timelines. Check out all the learnings from the GeOnG forum in this short blog post.
Based on the collective preferences that emerged during this exchange day, a working group refined a final scenario, which was approved during a two-step process: firstly, in early October by the board and CartONG Management Team, then, in early November by the entire CartONG team. At the same time, in order to move forward and not to lose momentum, we started addressing some of the issues that were identified during the original diagnosis in regards to regulating internal tensions and improving internal communication and transparency, and we started experimenting on new methods of democracy within the organization.

In addition to a number of significant projects both for the sector and as part of our support to our partners (see next section), 2022 also marked a turning point for CartONG with the development of a new governance and management model.

As we were preparing our strategy for the 2022-2024 period in 2021, it became clear that our governance and management model were no longer adequate to meet the challenges our organization was facing. The restructuring of the governance model was seen as a necessity and was therefore included as an objective in the strategy (area 4). We obtained the support of Coordination Sud’s Institutional and Organizational Strengthening Fund (FRIO), which allowed us to fund an external consultancy in 2022 and to structure our approach. This consultancy was carried out over nearly the course of the entire year of 2022 by Anne-Laure Prévost and Olivier Piazza of Les Maisons de l’Intelligence Collective cooperative. With the support of these two consultants, the process of redefining our governance model began with an in-depth assessment of the functioning of our organization in the spring 2022. This detailed diagnosis allowed us to highlight the existing challenges, contradictions and opportunities for CartONG.

The process then accelerated in June during a day-long team meeting where all CartONG staff and some board members gathered to discuss the different scenarios the team of consultants proposed based on the diagnosis run during the spring.

It was also an opportunity to experiment with some of the proposed methods – such as the “election without candidates” – to help us picture a potential implementation at CartONG.

A NEW GOVERNANCE BASED ON COLLECTIVE INTELLIGENCE

The new chosen model aims to stay true to both the values of our organization and the desire for democracy and the use of collective intelligence expressed by the team, but it is also a commitment to being pragmatic to ensure we can provide efficient and qualitative work in support of our partners and the aid sector. It thus legitimizes existing strategic decision-making bodies, clarifies decision-making processes and reconfigures the internal flow of information. We have tried to remain true to the DNA of CartONG, an innovative and agile organization, which is committed to continuous progress while staying attentive to the people who constitute it and its core value of “connectedness”. You can find more information about our new governance model and the overall process we followed in this article.
OVERVIEW PER ACTIVITY*

Organizational strategies
HQ by developing tools
SUPPORTING
Field operations
Capacity building
Knowledge building

FIELD OPERATIONS

CartONG’s support to field operations often takes the form of direct production or configuration of maps, databases, dashboards, webmaps or other Information Management tools or products. Beyond this, we often support our partners through the piloting or implementation of tools, or through hotline or products. Beyond this, we often support our partners through dashboards, webmaps or other Information Management tools supporting the Comité in the framework of the war in Ukraine.

GIS deployment in response to the war in Ukraine

Two GIS specialists from CartONG have been deployed as part of MSF GIS team, in the framework of the war in Ukraine. During these missions, our specialists evaluated the GIS needs on site (data management, static and dynamic mapping), supported the recruitment and training of a national MSF specialist and accompanied the work of the latter. A large number of PDF maps have been produced on different themes (MSF deployment, infrastructure, health, security issues), as well as foldable map atlases. Several dynamic mapping applications were also produced, some of which have been perpetuated with the extension of the conflict (applications concerning security issues, shelter monitoring and health infrastructure inventory). These interventions allowed the team members involved to experience the challenges of deploying GIS support in an emergency context.

Support to UNHCR global data service field operations

In 2022, CartONG continued its support to the UNHCR Global Data Service field operations. We have been back to Mauritania to assist UNHCR staff on the ground to update the data collected in 2016. We also supported remotely their operations in Ethiopia, building on the site mapping groundwork done through a field mission in 2019. We also ran a total of 32 mapathons to collect data for over 14 sites in Zambia, Chad and Sudan, as well as a country wide ground data collection in 2022, while an additional three were under development to be finalized in 2023.

GIS deployment in response to the war in Ukraine

In 2022, the process as well as the design were streamlined further, strengthening the product and making it faster to be deployed.

Mapping the impact of an infrastructure development project in Tunisia

CartONG was mobilized in the framework of an urban development project in support of the Tunisian National Urban Planning Agency. The objective of this project was the development of cartographic tools making it possible to measure the impact of an infrastructure development project financed by AFD in Tunisia (PRIQH 2 project). This project mobilized skills in the creation of databases for OSM data, creation of cartographic atlases including location maps and statistical maps and quality control of data.

Support to UNHCR global data service field operations

As part of our support to the humanitarian response to the war in Ukraine, we assisted Terre des hommes in the development of their Ukraine regional response’s information management system. It took the form of a needs evaluation, support and in-person training for the Hungary, Moldova and Romania field teams on their Monitoring and Evaluation tools, with a specific focus on their mobile data collection processes.

Setting up the Terre des hommes information management system for the Ukrainian response

For several years, CartONG has set up a project to accompany migrants through subjective mapping workshops. It is an approach to mapping based on a representation outside the traditional codes of cartography, which allows the visualization of subjective, imaginary, sensory or emotional data.

Mapping from here & abroad: subjective mapping for migrant populations

In 2022 we closed this project, supported by the Comité Solidarité Migrants of the Fondation de France and the department of Savoie via the FDVA fund, with a wealth of lessons learned and rich partnerships with actors involved with exiled people in France such as the French Red Cross, the Fédération des Oeuvres Laiques (FOL) and many mental health and social professionals. A total of 48 sensitive mapping workshops were carried out between 2020 and 2022, some of which were co-constructed with an art therapist, for a total of over 150 participants.

These workshops allowed exiled people to address their exile journey and their history in an innovative and personal way, but also to benefit from a break in their sometimes precarious and exhausting daily lives.
Through this data collection, the base map of the district was completed (roads and hydrographic network, urban tasks, buildings) and all the key points of interest of the territory linked to transportation, health, worship, trade, etc. were surveyed (516 points of interest integrated in OSM). 19 thematic maps were then produced to display the information learnt from the communities, and then shared with them by SIF.

This project allowed us to learn significantly on the methodological but also practical aspects, in particular on how to improve our cooperation with local OSM communities.

- **Open source Mobile Data Collection to assess WASH in detention centers**
  CartONG provided technical support to Terre des hommes for the development of a digital tool, called FACET Wind, to assess sanitary conditions in detention centers. It is a tool composed of mobile forms compatible with ODK / KoboToolbox for data collection.

  The data collected can then be easily analyzed via dedicated pre-configured tools (FACET Analyser or Power BI) allowing a standardized visualization of the results. It is built in French, English and Spanish, so that it can be used in various contexts. It was piloted successfully in Ecuador and it is now ready to be deployed in other missions. It is a simple, adapted and ready-to-use solution that uses open source mobile data collection tools and can be carried out online/offline.

- **Participatory Mapping in Mayotte for Doctors of the World France**
  Doctors of the World France requested CartONG’s support in June 2022 to assist in the implementation of participatory mapping workshops as part of a project to raise awareness on the impact of water on the health of communities in two precarious neighborhoods of Mayotte. The dynamics of each neighborhood were difficult for Doctors of the World’s teams to understand, so the project evolved towards a participatory approach with the inhabitants. The aims of our intervention were to improve knowledge about the neighborhoods while creating a community mobilization with the inhabitants of the neighborhood.

- **MEAL trainings for Expertise France**
  CartONG, in partnership with Groupe URD, has created and delivered a training offer with various courses around Monitoring, Evaluation, Accountability and Learning to accompany the implementation of the internal M&E policy of Expertise France for the next three years. CartONG delivered the training to staff both in the field and at the headquarters. In total, four training sessions took place at Expertise France’s headquarters in Paris and three sessions were done remotely.

- **Training for Solidarité International staff on mobile data collection**
  CartONG was invited to participate in the “week of coordinators” (a week where Solidarités International offers to its staff, program coordinators and technical coordinators, training at their headquarters on various subjects). On this occasion, CartONG ran an introductory session on uMap and advanced features of Excel, presented the latest KoboToolbox’ functionalities, and gave an overview of various toolboxes as well as the self-assessment tool of the CartONG Learning Corner.

- **Training Acting for Life teams on Mobile Data Collection tools**
  CartONG developed a three-day training cycle to support the Acting for Life project team in creating more efficient monitoring tools. The core of the training was on Excel (two days) while the first day was an introduction to KoboToolbox. Following this first training cycle (delivered on-site), the trained teams chose a couple of different subjects on which they wished to be trained further. They chose online mapping, advanced use of KoboToolbox and XLS form language. These were thus the subject of two additional half-day remote learning sessions.

- **Training on Mobile Data Collection for IRAM**
  Running of a 3-day training session to introduce the IRAM team in Montpellier to Mobile Data Collection. The teams discovered the theory and tools available through practical exercises around quality-oriented form building and responsible data concepts.

- **Organizational strategies**
  Supporting organizational strategies is one of the specific added values of CartONG. Over the years, we have built on our knowledge of the sector and our continued support of various types of actors to help organizations better understand their needs and think long-term, while providing Information Management strategic advice.

- **Improvements to UNHCR’s Site Maps**
  As part of our support to UNHCR GDS organizational strategy, we continued to reflect on, update and improve the site mapping application, which CartONG has been developing and enhancing for more than 5 years now.

  In 2022, we added the population figures as KPI at site level. We also included the shelter density analysis and the possibility to load additional UNHCR data sets, as well as improved the analysis on the latrines.

- **Improvement of Sidaction’s M&E system**
  CartONG worked in collaboration with Groupe URD to improve Sidaction’s existing Monitoring & Evaluation System. We helped them build a more relevant system, managing more qualitative and global information, and to make it more useful across different teams (Program, Advocacy, etc.). As part of this support we also trained the HQ teams and local partners of Sidaction to the new system.

- **Support to Atlas Logistique’s Signal project**
  The Signal project aids humanitarian actors by identifying vulnerable communities to optimize intervention effectiveness. It comprises two key components:
  1. The Logistic Vulnerability Index, which offers insights on logistical aspects like road network access, international borders proximity, household motorized vehicles, etc.
  2. Logistic diagnostic reports, which provide contextual information on product availability and population accessibility to sales points, enabling refined needs assessment.
In 2022, CartONG created a dashboard to facilitate information access and promote logistical vulnerability data usage. It includes a map visualizing the index and sub-indicators, and a catalog for local diagnostic reports.

CartONG continues to enhance the tool in 2023 by adding new features and information. Training in dashboard administration has been provided to the Signal team for self-sufficient tool updating.

**Data Management Support for Expertise France’s Innov’l Project to Foster Entrepreneurship**

CartONG supported Expertise France’s Tunisia-based project Innov’l (which aims to support entrepreneurs and foster a stronger and more active local economic environment) through the improvement of its existing data collection system and the development of a Power BI dashboard that displays key figures and indicators to follow the project’s progress.

In addition, CartONG has also provided training to the Expertise France team to ensure the system provided is used in the most suitable way and adaptable to their needs.

**GIS Support to UNICEF in Collaboration with MapAction**

CartONG, together with its partner MapAction, is part of a Geospatial Hotline put in place by the Division of Data, Analytics, Planning and Monitoring (DAPM) in UNICEF Headquarters (HQ) to respond to Geospatial requests from various UNICEF HQ units and Country Offices.

As part of this support, in 2022, CartONG and MapAction received several large-scale requests ranging from mapping out Child Poverty and Environmental risks in Laos, as well as other countries and regions, to bespoke maps specifically produced for reporting and publications. CartONG also worked on updating the MICS QGIS Plugin which was developed in 2021. UNICEF released the Plugin in November 2022.

**Counseling FairTrade Australia-New Zealand on Mobile Data Collection**

CartONG has continued its collaboration with FairTrade Australia-New Zealand, first through technical counseling on MDC software and database management and also by providing regional maps and national maps for its activities in the wider pacific.

**Knowledge Building**

CartONG’s knowledge building activities aim at helping organizations stay on top of Information Management tools and technologies, by making available various resources. These can be tool benchmarking studies, operational research, sector studies, learning events, case studies or toolkits and other technical documentation. All the public resources of CartONG can be found on the organization’s IM Resource Portal - where many external sector resources are also referenced - and on its dedicated “Learning Corner” section since 2022.

**Emergency Assessment System for Action Against Hunger France**

CartONG has developed an emergency alert system for Action Against Hunger France (ACF) on the MDC tool KoboToolbox. This emergency assessment system for field operations is based on a list of standard indicators to evaluate the severity of a crisis and to measure the level of assistance field teams would need from HQ. CartONG also provided mentoring support for ACF team in Nigeria as a follow up to the release of the data analysis toolbox (with ACF’s contribution) in early 2022.

**ELSA - Database Maintenance for the Follow-up of AIDS-related Activities**

ELSA is a collaborative framework that enables four French NGOs to share experiences, coordinate efforts, and pool resources in the fight against AIDS in Africa. These NGOs are the French Movement for Family Planning, Sidaction, Solidarité Sida, and Solthis. Each organization works with numerous partners, and to streamline and coordinate their actions, they use a private website to input information about their missions and partners. This site also helps them prepare new missions and retrieve information for their activity reports. The first version of the website required some bug fixing and some improvements for visualizing, exporting, and searching data according to their needs.

As a result, they enlisted the help of CartONG in 2022 to enhance the database and add a dashboard for easier search and export capabilities.

**Data Literacy and Mapping for the Resilac Consortium**

CartONG’s 4-year support to the Resilac (Inclusive Economic and Social Recovery of Lake Chad) consortium with Groupe URD, Action Against Hunger (ACF) and Care, in partnership with the CECF - Terre Solidaire network, Search For Common Ground as well as local organizations in the countries of intervention ended in 2022.

CartONG’s contribution took different shapes over the years: an IM Information Management needs assessment, a Power BI project dashboard, and some data literacy and mapping training and support. A learning paper presenting the avenues to move towards a more solid and better integrated information management approach was also written with Groupe URD to help prepare for the next phase of the project starting in 2023.

**To learn more...**

The final evaluation of the Strengthening Program Data Management project has been conducted for the purposes of collective learning, accountability and transparency. Read the evaluation [here](#) in French.
**GIS**

The GIS team is composed of a multidisciplinary team working on the full range of Geographic Information Systems. Divided in 3 main fields of expertise, we cover map production (both static and online), we have experts working on data management and data interoperability, and last but not least, we support the server side, working on the installation and maintenance of applications.

In 2022, the GIS pole continued to provide support to humanitarian partners (in particular UNHCR and Doctors Without Borders) by mobilizing the team’s skills in static and dynamic mapping, through training on various technologies and by providing support in the field via several large-scale missions.

**TRAINING**

As in previous years, CartONG’s GIS team has given introductory training in mapping with practical exercises on QGIS to the field teams of Doctors Without Borders, AFD and HAI (Myanmar). In addition to this training, which has already been tried and tested several times and constantly improved, other training sessions on uMap, on mapping for publications and on ArcGIS Field Maps, ArcGIS Pro and ArcGIS Online were also given. Finally, the team intervened in universities to raise awareness on the use of GIS in humanitarian projects among GIS or international cooperation students.

**DATA PROCESSING**

GIS is not only about cartographic production. A whole underlying and less visible work, on the Databases in particular, is necessary to produce high-quality maps, to facilitate their production, or simply to make the data accessible. The team’s data processing skills have been mobilized through the GDS project for UNHCR in 2022, via the implementation of a set of quality control scripts on their databases, developed in Python. These scripts, which run on a weekly basis, check that the fields are properly completed and without input errors, that the layers do not contain geometric errors or inconsistencies between elements. Also for UNHCR, background maps in the form of vector tiles have been generated from the Site Mapping Database to be used more easily in applications such as ArcGIS Online or Power BI.

**STATIC & DYNAMIC MAPPING / MAPPING FOR PUBLICATIONS**

In 2022, we made about 700 maps on more than 60 countries. From Laos to South Sudan, from epidemiological or security monitoring to mapping of producers (coffee, cocoa, etc.) in the Pacific, we continued to support our partners in the production of maps both for monitoring their field operations and for decision-making or advocacy activities.

Our mapping interventions have also expanded this year through our first partnership with national NGOs as part of the response.

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**A FEW HIGHLIGHTS**

- **MISSIONS IN UKRAINE FOR MSF** - 2 successive missions to respond to the war in Ukraine and to set up the first mapping monitoring tools for MSF.
- **MISSION IN MAURITANIA FOR UNHCR** - a mission to update the data of the M’bera site and to train the field teams in data collection with ArcGIS Field Maps.
- **GIS WEEK IN PRAGUE** - within the framework of the partnership with MSF, an opportunity to meet all the GIS Centre field specialists and to exchange on best practices.

**IM & MDC**

CartONG’s IM/MDC team supports many of the non-cartographic activities of NGOs and International Organizations, from the collection of program data to its analysis and sharing.

**MAIN TECHNICAL AND EXPERTISE FOCUS**

2022 was a year of consolidation of our expertise on different topics of the day in terms of Information Management. Many of our projects supported NGOs, consortia and IOs improve their Monitoring & Evaluation systems, be it on the methodological side or the more technical side.

The methodological side corresponded to thinking through the needed tools and approaches to make the systems to collect and access qualitative and quantitative information concerning activities more efficient and effective, and helping partners set up the systems accordingly. This was done at field level with Terre des hommes in the Ukrainian context through field missions and in-person trainings, as well as at organizational level in collaboration with Groupe URD to support organizations like ASMAE or Sidaction, or through direct capacity building with a training cycle on how to conduct the Monitoring and Evaluation of a project for Expertise France staff.

The more technical side was on implementing and exploring more advanced aspects concerning some of the program data technologies of the day: Power BI dashboards (including the exploration of some more advanced components such as building multi-language Power BI dashboards or using parameters for data modeling), but also exploring state of the art tech such as the implementation of R for analysis & reporting.

On more transversal activities, it was a year with a strong focus on responsible data, be it in terms of data protection, but also more widely data literacy. We therefore produced a lot of resources for the sector on these topics, and had many related activities with partners, such as our support to German NGOs through a new data protection training organized through VENRO, the German equivalent of Coordination Sud.

**PUBLICATIONS & EVENTS**

- Publication of a paper on **IMPROVING THE MONITORING & EVALUATION SYSTEM** of an aid organization (in French)
- Joint publication with Groupe URD of a **LESSONS PAPER ON INFORMATION MANAGEMENT PRACTICES** within the RESILAC consortium (in French)
- Seminar on Monitoring & Evaluation of Development Projects organized by IRAM and the University of Versailles Saint Quentin
- Groupe URD Autumn School on Humanitarian Aid - “Taking a new look at quality in today’s context of standards and restrictions”
PARTICIPATORY MAPPING

CartONG’s participatory mapping team supports local and international solidarity actors in the implementation of their own projects by bringing its expertise on participatory and subjective mapping methodologies. It also carries out several projects directly.

DEFINITION OF PRIORITIES WITH A REINFORCED TEAM

The Participatory Mapping Pole has continued to develop, with 5 permanent staff members supported on a daily basis by 2 civic services and a close collaboration with the association’s volunteers. Our team has defined its competences around 4 main axes:

- Mapping with OpenStreetMap, free and low-tech tools
- Participatory mapping
- Subjective mapping
- The development of volunteerism

These skills were used to support small or medium-sized international and local organizations (Habitat Cité, CEFREPADE, Avec l’Ethiopie), and development projects. Projects linked in particular to the adaptation to climate change, to the challenges of precarious urban neighborhoods and to assisting migrants. Complementary skills that we have strengthened over the past several years while cultivating the originality of our approaches by proposing alternative hybrid solutions that are light and accessible to all.

LEVERAGING OUR SKILLS TO DEVELOP NEW PROJECTS AND COLLABORATIONS

In 2022, the pole’s novelty were the Education for Citizenship and International Solidarity projects, which followed several experiments conducted in previous years. Two projects were launched: Activ’Ecsi and CartODD.

They allowed us to consolidate our tools and the format of our activities, such as the mapathons, to make young people aware of the stakes of humanitarian aid and international development. It was also an opportunity to strengthen our relationships with humanitarian and development organizations in our region; links that are already leading to new collaborations, such as the one with PSS and Arcade around the improvement of reference maps of field interventions, training in field mapping for local teams and the realization of specific business maps.

Finally, we also closed the project “Maps from here and abroad”, launched in 2018, which had since undergone several changes. This has allowed us today to continue the activities for migrants in France around two approaches: mapping activities as psychosocial support and digital mediation with the MapInclusive project.

WEB DEVELOPMENT

The WebDev team is composed of a large variety of profiles, giving us more flexibility to implement a wide range of web projects in support of our partners. In short, the team gathers three main profiles: full stack web developers - some specialized in front-end and some in back-end technologies; staff loving scripts and working on the data side; and finally, taken from the AGILE world, products owners who oversee the full development process as well as and, more importantly, make sure we understand and meet users requirements.

MAIN POLE PRIORITIES FOR 2022

In 2022 the pole determined 4 main areas of focus that were then worked on throughout the year:

- **Open Source**: how to conceive products to make them adaptable and reusable.
- **Monitor Impact**: how to properly monitor the impact of projects after their deployment.
- **Green It!**: how to rethink some practices (coding, hosting, functional need fulfillment) in order to have the lowest environmental impact.
- **Agile**: linked to CartONG’s strategy, “agilize” and standardize our workflows and increase the involvement of partners in projects.

STANDARDIZATION OF OUR TECHNICAL STACK

The CartONG web development team having grown significantly during the last few years, 2022 was also a year of focus on standardizing the technical languages and frameworks used by the team. This helps to ensure better maintenance, technical coherence amongst our projects and the capitalization of team skills. Strongly oriented on open-source solutions, the team agreed on the set of tools (the “stack”) that would correspond to each type of project needs.

INDUSTRIALIZATION OF OUR INTERNAL PROCESSES

With an aim to improve the quality of products and also internal processes, an achievement of the pole was to include continuous deployment of updates to ship the latest changes on production. Other good practices were implemented, including for example code review between developers, which increases the quality of products and makes the team skills evolve through experience sharing.
LAUNCH OF THE LEARNING CORNER

To go further on this point, in 2022 CartONG launched the IM Resource Portal’s Learning Corner. Building on the very positive experience with the MDC Toolkit first published in 2019 thanks to Terre des Hommes, which became a reference for many NGOs, CartONG took this initiative to scale by making available a space for self-learning for international cooperation practitioners wishing to access relevant guidance for the choice of tools and implementation of good practices.

To quote two big French humanitarian NGOs:

Thanks a lot, I use all your resources to train our field teams in program data!

We include the Learning Corner directly in our briefings!

The Learning Corner therefore at the end of 2022 comprised 8 toolboxes of which 6 were new (First steps with program data, Excel, Data Analysis, Data visualization, Responsible Data, Mapping & GIS), as well as various tools (the program data self-assessment methodology, a guide to evaluating Information Management components of programs, etc.), and training material to help discover program data, Excel or responsible data concepts.

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STUDY ON PROGRAM DATA MANAGEMENT TRAINING PRACTICES - IN FRENCH

In its previous study “Program Data: The silver bullet of the humanitarian and development sectors? Panorama of the practices and needs of francophone CSOs”, published in September 2020, CartONG noted that “according to the professionals interviewed, less than a quarter of the people in charge of Information Management within their Civil Society Organization (CSO) have all or part of the necessary skills for the positions they hold”, implying “gaps in the teams in charge of Information Management of different types: methodological, technical and strategic”.

Having teams trained in Program Data Management is essential for CSOs today to ensure quality analyses, support operational decisions and better help and protect vulnerable populations by ensuring responsible data management.

In the continuity of CartONG’s reflection on the useful skills in program data management, first via the “HR Pack - Program data management for Humanitarian Aid and International Development CSOs” (published in March 2021), our teams looked at training practices in program data management, by studying the obstacles to increasing the skills of professionals in the sector and released a groundbreaking study in March 2022 to share their findings on the subject.

This study, available in French only, first looks at the issues related to the training of Humanitarian Aid and International Development actors in GDoP and then details how they are currently trained in the subject. It then provides a list of recommendations for CSOs, training institutes, French higher education institutions and, finally, humanitarian and development professionals to initiate and encourage an overall increase in the sector’s skills on the subject.

A FEW KEY PUBLICATIONS THIS YEAR

- A more practical v2 of HR set of tools providing methodological support to help CSOs better structure their human resources on the topic.
- A learning paper centralizing 11 pointers for CSOs to strengthen their program data practices.

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QUICK OVERVIEW OF THE ACTIONS CARRIED OUT BY OUR VOLUNTEERS

Our volunteers supported CartONG with the following endeavors:

- Definition and implementation of a new governance for CartONG.
- Organization of quarterly mapathons in Arvalis, to raise awareness on collaborative mapping in this firm.
- Development of the infrastructure of a service that would generate maps with little to no human input, according to the type of emergency. This mission is ongoing and is led by a staff member.
- Building a skills-based sponsorship between CartONG and Magellium.
- Support to the organization of the GeoNG.
- Facilitation of webinars: 7 of our volunteers presented a project to the CartONG community.

Our volunteer community also supported several NGO partners including by:

- Creating an interactive map (using Lizmap) of the water pollution samples collected by OceanEye, as part of a staff project.
- Supporting the ICRC at the beginning of the war in Ukraine, by enriching their database with the location data of Red Cross societies in 4 countries sharing a border with Ukraine, on ArcGIS Online. They mapped out more than 700 locations in one month.
- Creating a QGIS map of Bobo-Dioulasso (Burkina Faso) for the Agency for Regional Development and the CEFPARADE. The map was used to define a waste collection and transport strategy for the city.
- Mapping close to 2,800 buildings to create a basemap of informal neighborhoods of Phnom Penh (Cambodia) that Planète Enfants & Développement used to implement a participatory mapping project.
After several years of strong growth, CartONG continued its upward trend with a 6.6% increase in budget, reaching a total of €1,949,260.26 (operating outputs). Growth, however, was less substantial than that seen over the last two years (between 15% and 30%).

For the most part, our budget continues to be financed by our humanitarian partners in the form of service provision (56%), with a significant proportion coming from public and institutional donors (38.6%). Grants have remained relatively constant since 2020. The remainder of our resources comes from donations from corporate partners (0.1%), sponsors for the GeOnG event (2.5%), training sessions (2.4%), individual donations and membership fees (0.1%), and other miscellaneous sources (0.3%).

Our partners MSF (41%) and UNHCR (26%) continued to be by far the biggest contributors to our budget, up 6.4%. We also acquired a number of new partners and donors this year (Doctors of the World, Fédération des Acteurs de la Solidarité, ASMAE, Erasmus+, etc.) and maintained relations with several others - notably the French Development Agency, which is now one of our main donors. Our need to diversify sources of income remains a long-term objective, and we can see that the % of resources contributed by MSF and UNHCR continues to shrink.

Our operating expenses amounted to €2,046,203.61 in 2022, compared with €1,819,843.63 in 2021, an increase of 12.4%. They are mainly made up of personnel expenses (salaries & social security charges, consultants’ remuneration and payroll taxes), which represent around 90% of total operating expenses on average over the last few years.

These have risen significantly in 2022, and at a higher rate than our outputs (+12% vs. +6.5%), see specific point on Human Resources.
As we have seen, Human Resources continue to account for the lion’s share of our expenses - almost 50% - with, in particular, a significant rise in payroll costs and associated social security charges in 2022, reflecting both the association’s determination to preserve employees’ purchasing power in a period of high inflation, continue to attract the skills essential to the development of our activities, and the consequent increase in support functions, and to pursue the policy initiated in recent years of securing our salaried positions (the proportion of permanent staff having risen by 42% compared with the previous year, while at the same time the number of fixed-term contracts fell by 36% over the same period).

The increase in consultancy costs in 2022 (+30%) is mainly explained by the lack of internal resources for certain skills required for some of our projects, particularly in web development.

In 2022, we mainly strengthened the GIS team (excluding job renewals) with the recruitment of a Product Owner and a Program Manager to manage the partnership with Doctors Without Borders. In addition, part of the team will be renewed, partly as a result of the structural changes underway.

In total, we will have 34 employees (non-FTE, 31 FTE) by the end of 2022 (including 27 permanent contracts and 7 fixed-term contracts), in addition to our interns (~3/year), civic service volunteers (~2/year), long-term consultants (5 pers.) and temporary consultants (10 pers.).

Thus, in 2022, CartONG will have 35 salaried employees and 20 non-salaried collaborators, similar to previous years.

EARNINGS FOR THE YEAR AND THEIR APPROPRIATION

1) All the above-mentioned factors are responsible for the increase in our expenses, to which should be added the implementation of CartONG’s multi-year strategy and its action plan for 2022, and the reflection undertaken on the evolution of its governance, which has de facto considerably increased the association’s expenses. All these internal investments, coupled with a year of organizing the GeoOnG event (with a loss of around €50,000), as well as various actions taken to offset inflation in France and abroad, have contributed to a negative net result for CartONG in 2022, to the tune of €90,286.46, despite a strong increase in our income.

Although CartONG still retains sufficient associative equity to cope with this deficit, measures have been initiated to move towards balanced accounts in 2023, a year which will be marked by further major structural changes linked to its governance, notably with the arrival of an Executive Director.

2) It is proposed that the Annual General Assembly allocate this negative 2022 result to the CartONG association’s associative funds, as retained earnings.

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Our full financial statements for the year 2022, compiled by our accountant and certified by our auditor, are available to partners and donors, contact us at: info@cartong.org to receive a copy.