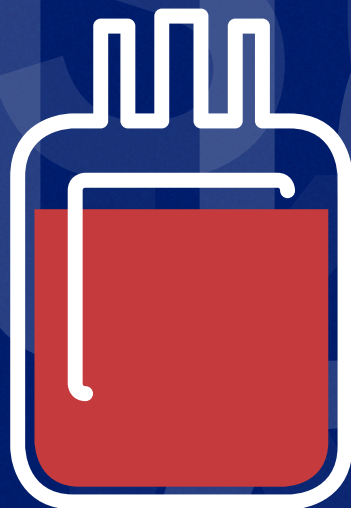




MOTHER'S MILK



BLOOD PRODUCTS



STEM CELLS



STABLE PRODUCTS



SPECIALIZED
LABORATORIES



HUMAN TISSUES



HÉMA-QUÉBEC


MISSION

To efficiently meet the needs of the Québec population for quality blood and other biological products of human origin.

VISION

To become a strategic partner for the Québec health system.

A GREAT TEAM DEDICATED TO
THE GIFT OF LIFE


OVER
200,000
DONORS
of blood, plasma, stem cells, human
tissues, and mother's milk


THOUSANDS OF
VOLUNTEERS


1,551
EMPLOYEES


DEDICATED
PARTNERS


THOROUGH
DIRECTORS

Their commitment enables Héma-Québec to provide hospitals with **nearly 800,000 products** every year and support professionals in the health care system by providing specialized, innovative services.


\$443 MILLION
ANNUAL
REVENUES

SECTORS OF ACTIVITY

BLOOD PRODUCTS

Blood is the fluid that flows through the body's veins and arteries.

It is made up of plasma, in which three types of cells are suspended: red blood cells, white blood cells, and platelets. Every 80 seconds, someone in Québec needs blood. It may be following an accident, during surgery, or to treat an illness.

STABLE PRODUCTS

Stable products are medications that are manufactured primarily from plasma.

Plasma is the liquid part of blood that transports blood cells and nutrients in the body. Thousands of Québécois need plasma to treat various illnesses, such as neurological disorders, immune deficiencies, and other diseases, like hemophilia.

STEM CELLS

Stem cells are the "parent" cells from which all the other blood cells develop.

They are found in bone marrow, peripheral (circulating) blood, and umbilical cord blood. For some patients, a stem cell transplant is the only chance of survival. Some diseases cause the destruction or abnormal functioning of the bone marrow, and the treatment of last resort involves replacing the patient's stem cells with those from a healthy person.

HUMAN TISSUES

Human tissues can be collected for transplanting purposes.

This involves, for example, heart valves and ocular, cutaneous, arterial, and musculoskeletal tissues. One tissue donor can help up to 20 people, whether to restore sight through a corneal transplant or to treat serious burns with cutaneous tissues.

MOTHER'S MILK

Collected mother's milk is particularly beneficial for infants born extremely pre-term who cannot be breastfed by their mother.

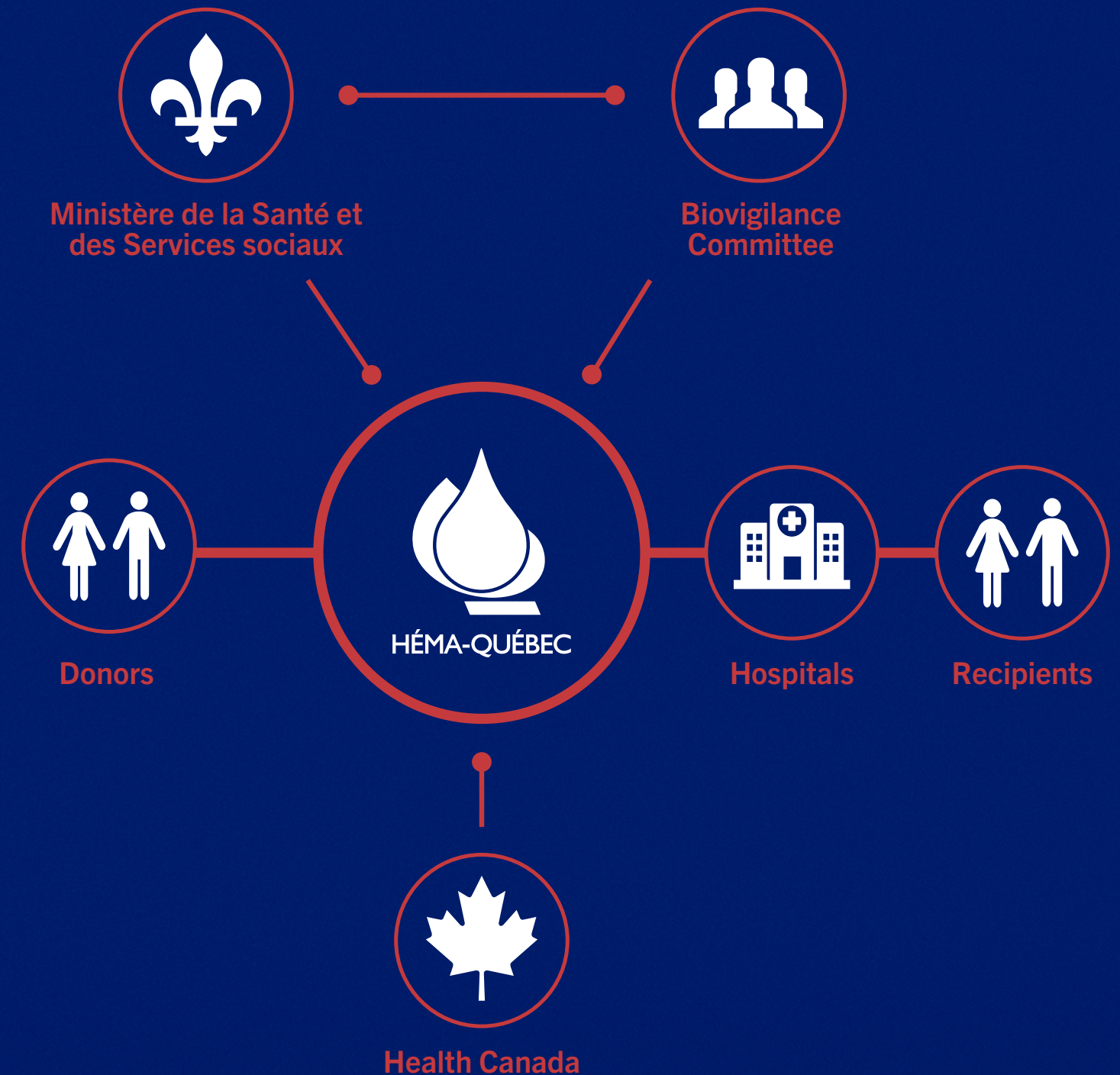
It reduces the risk of developing a serious intestinal disease.

SPECIALIZED LABORATORY SERVICES

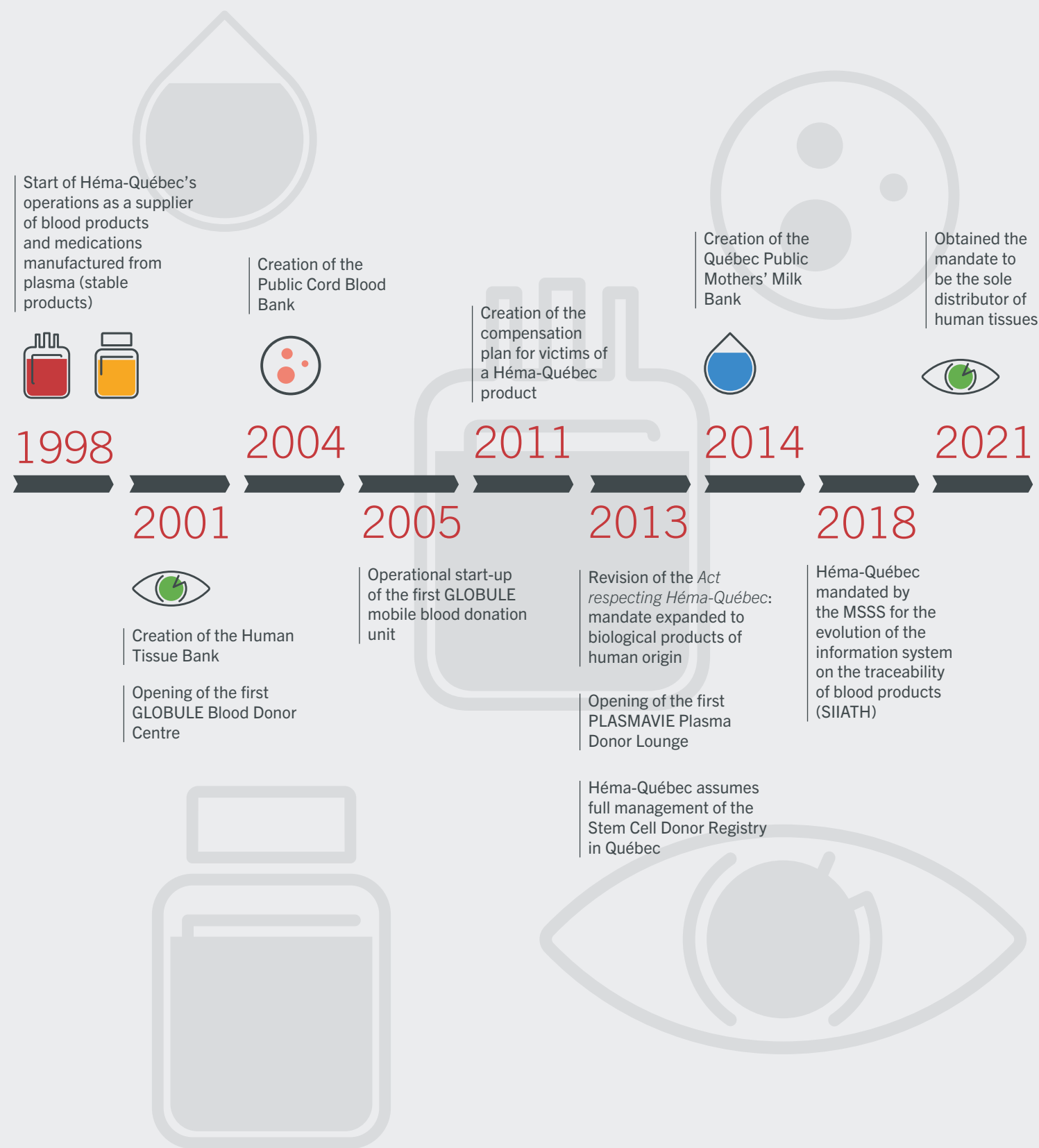
Héma-Québec provides specialized analysis services to its partners in the Québec health system.

These can include requests for analyses for case studies in erythrocyte and leuco-platelet immunology, erythrocytic genotyping, HLA typing for patients, or screening tests for donors of blood products and stem cells.

THE BLOOD AND BIOLOGICAL PRODUCTS OF HUMAN ORIGIN SYSTEM IN QUÉBEC



FROM BLOOD SUPPLIER TO EXPERT IN BIOLOGICAL PRODUCTS OF HUMAN ORIGIN

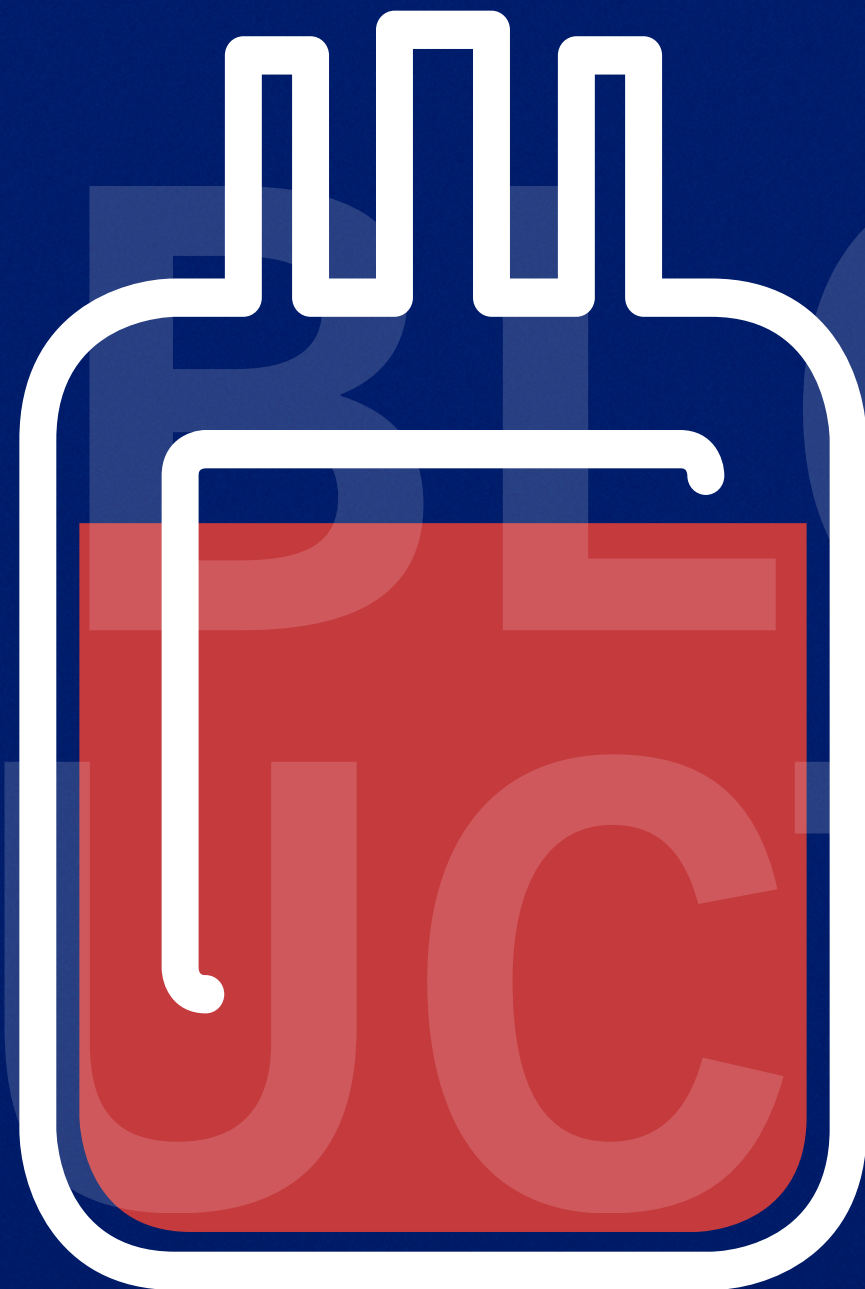


PERMANENT PRESENCE THROUGHOUT QUÉBEC



BLOOD PRODUCTS


As the exclusive supplier of blood products in Québec, Héma-Québec is responsible for recruiting donors and for collecting, testing, processing and delivering products to hospitals.




AT A GLANCE


149,761
REGISTERED
DONORS
(all types of donations)

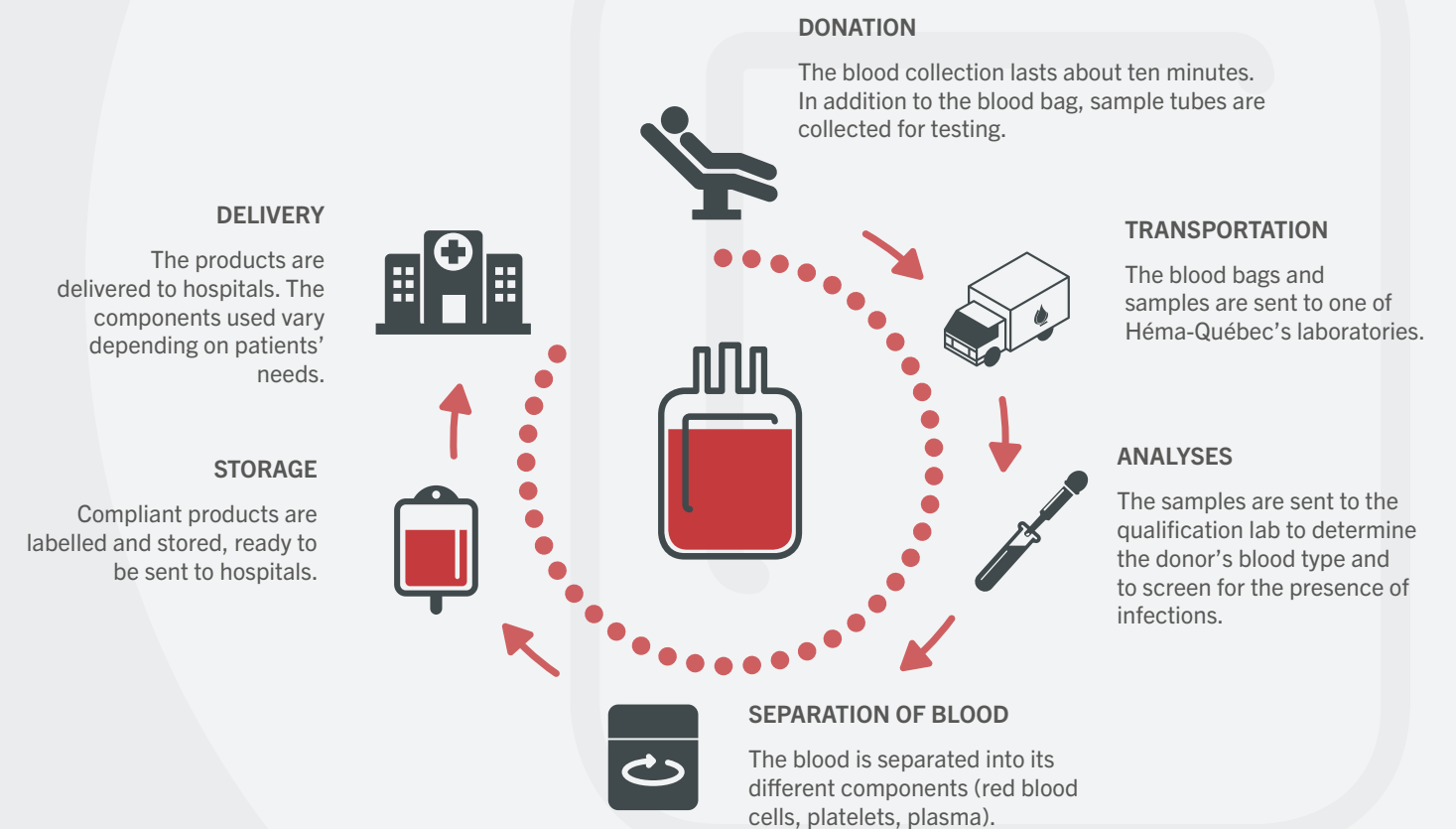

378,817
VISITS
to the collection sites
(all types of donations)


1,424
BLOOD
DRIVES


1.74
WHOLE BLOOD
DONATIONS
per donor per year on
average


295,871
BLOOD
PRODUCTS
delivered to hospitals

FROM DONATION TO DISTRIBUTION



STABLE PRODUCTS

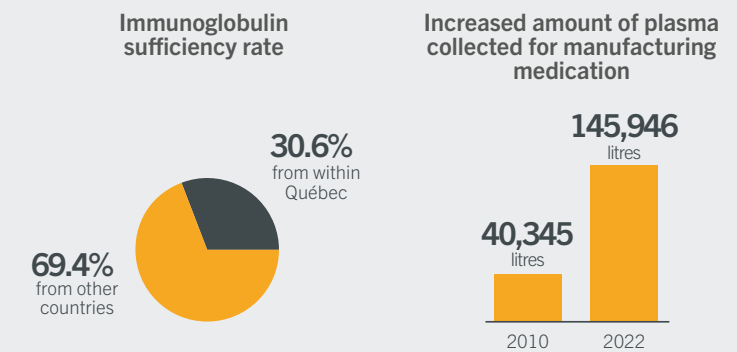
Héma-Québec is the exclusive distributor of stable products for Québec. It is responsible for supply strategies, the purchase of medications manufactured primarily from plasma (stable products), inventory management and product distribution to hospitals. It also looks after donor recruitment, collection and testing, and sending a part of the plasma it collects for fractionation.



475,099
STABLE PRODUCTS
delivered

IMPROVING PLASMA SUFFICIENCY intended for manufacturing medication

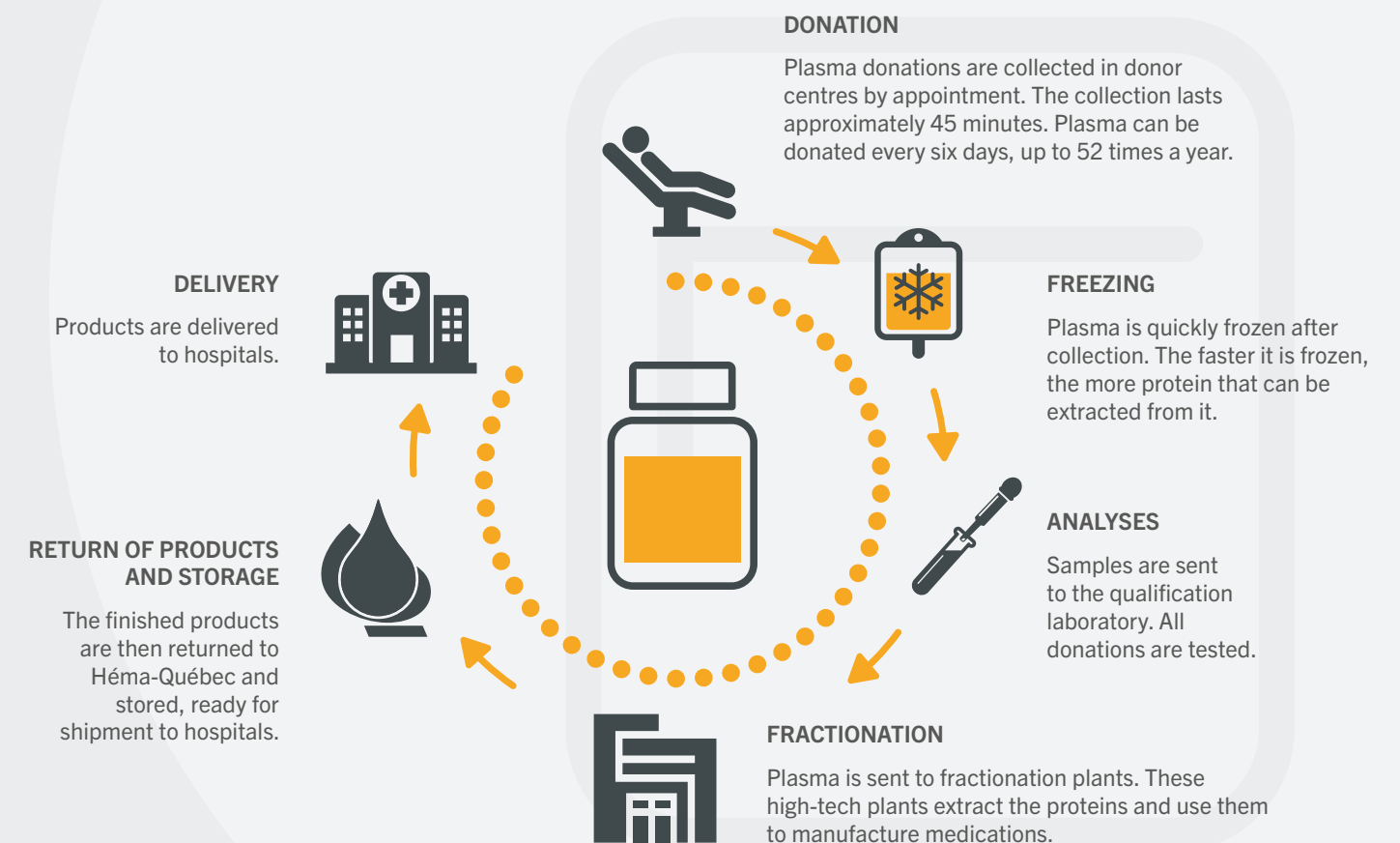
Immunoglobulins are the most widely used plasma products in Québec, and the organization is aiming to increase the sufficiency of them. In 2021-2022, the volume of plasma used for manufacturing medication met 30.6% of Québec's immunoglobulin needs.



Sufficiency relies on the generosity of donors

20,800
registered
PLASMA
DONORS

FROM DONATION TO DISTRIBUTION



STEM CELLS

STEM CELL DONOR REGISTRY

Héma-Québec is responsible for recruiting and qualifying donors, as well as managing the Stem Cell Donor Registry for Québec. This computerized registry contains the records of nearly 54,000 enrolled individuals who have consented to donating if they are found to be compatible with a patient. Héma-Québec's Registry is certified as meeting the highest international standards and is part of the World Marrow Donor Association's (WMDA) global network.



The Stem Cell Donor Registry is linked to the international donor bank of the World Marrow Donor Association (WMDA), which provides access to almost 38 million potential stem cell donors.

STEM CELL DONOR REGISTRY

AT A GLANCE



1,352

**DONORS
ADDED**
in 2021-2022



53,954

**REGISTERED
DONORS**
in Québec

The registry is part of a global network of nearly



38 MILLION
**POTENTIAL
DONORS**



129

**PATIENTS RECEIVING
A TRANSPLANT**
in Québec

STEM CELL DONATION: STEP BY STEP

POST-DONATION FOLLOW-UP

The donor is followed up until full recovery.

STEM CELL DONATION

If all conditions are met, the donation can take place. Two types of donations are possible: bone marrow or peripheral stem cells.



**PATIENT RECEIVES
THE TRANSPLANT**

The transplant is done between 24 and 48 hrs after donation.



PREPARING FOR THE DONATION

The potential donor undergoes a general physical examination to confirm whether their health status allows them to donate.

REGISTRATION

Any person who qualifies can enrol in the Registry. They will receive a buccal swab collection kit in the mail.



DETERMINATION OF THE GENETIC PROFILE AND ADDING TO THE REGISTRY

Samples returned to Héma-Québec are used to determine the genetic profile of the potential donor, who is then added to the international registry.

CONFIRMATION OF COMPATIBILITY

If a person is potentially compatible with a patient, Héma-Québec conducts advanced tests to confirm their genetic compatibility with the patient.



**PATIENT REQUIRING A STEM
CELL TRANSPLANT**

For some patients, a stem cell transplant is the only chance of survival.

STEM CELLS

PUBLIC CORD BLOOD BANK

Umbilical cord blood is very rich in stem cells. The Public Cord Blood Bank (PCBB) provides access to a complementary source of stem cells, other than those from bone marrow or peripheral blood. Like Héma-Québec's registry of adult donors, the PCBB is an integral part of the international registry of the World Marrow Donor Association. While Héma-Québec is responsible for donor registration and qualification, the collection itself is done in nine partner hospitals. Upon receipt of the collected cord blood, Héma-Québec processes, analyzes and cryopreserves, or banks the cord blood units. It is the first operational public cord blood bank in Canada.

PUBLIC CORD BLOOD BANK

AT A GLANCE


2,784
MOTHERS REGISTERED
in the Public Cord Blood Bank

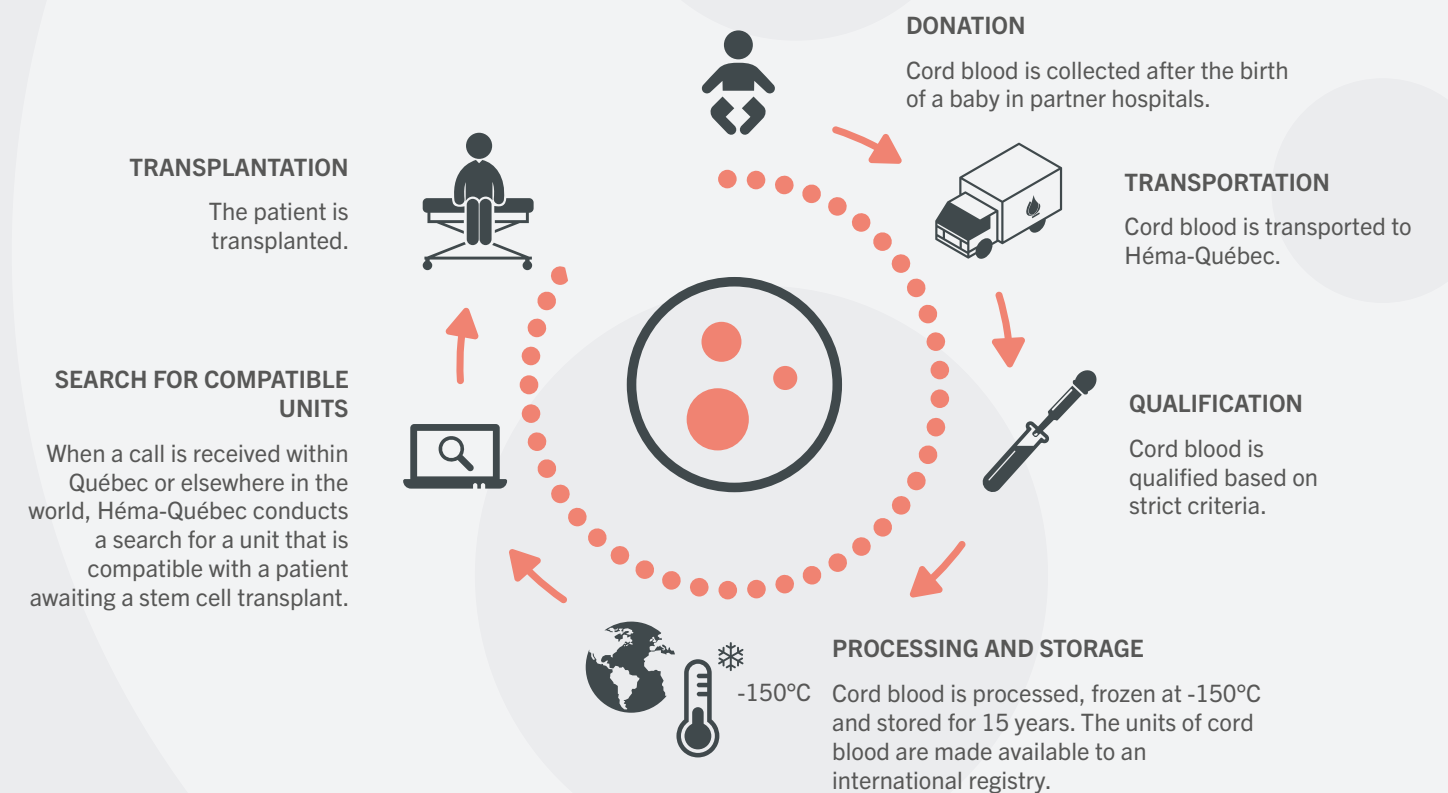

11,917
UNITS BANKED
as of March 31, 2022


9
Partner
HOSPITALS


12
UNITS DISTRIBUTED
worldwide in 2021-2022


193
UNITS DISTRIBUTED
worldwide since 2008

FROM DONATION TO TRANSPLANTATION





HUMAN TISSUES

Héma-Québec manages the Public Human Tissue Bank in Québec. It is responsible for collecting, processing, qualifying and distributing human tissues to meet the needs of hospitals. One of the team's missions is to raise awareness among healthcare professionals of the importance of identifying and referring potential donors following their death.

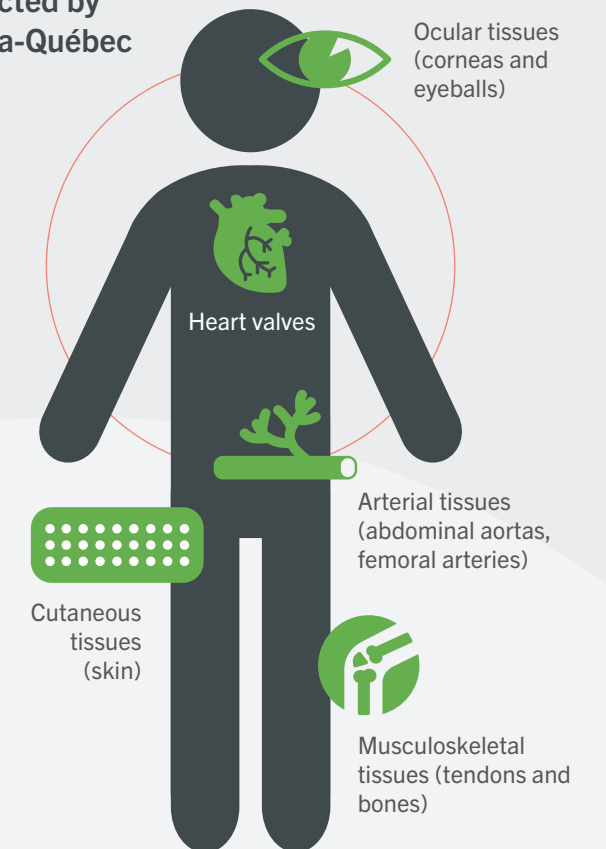
AT A GLANCE

5,597
Donor
REFERRALS
received

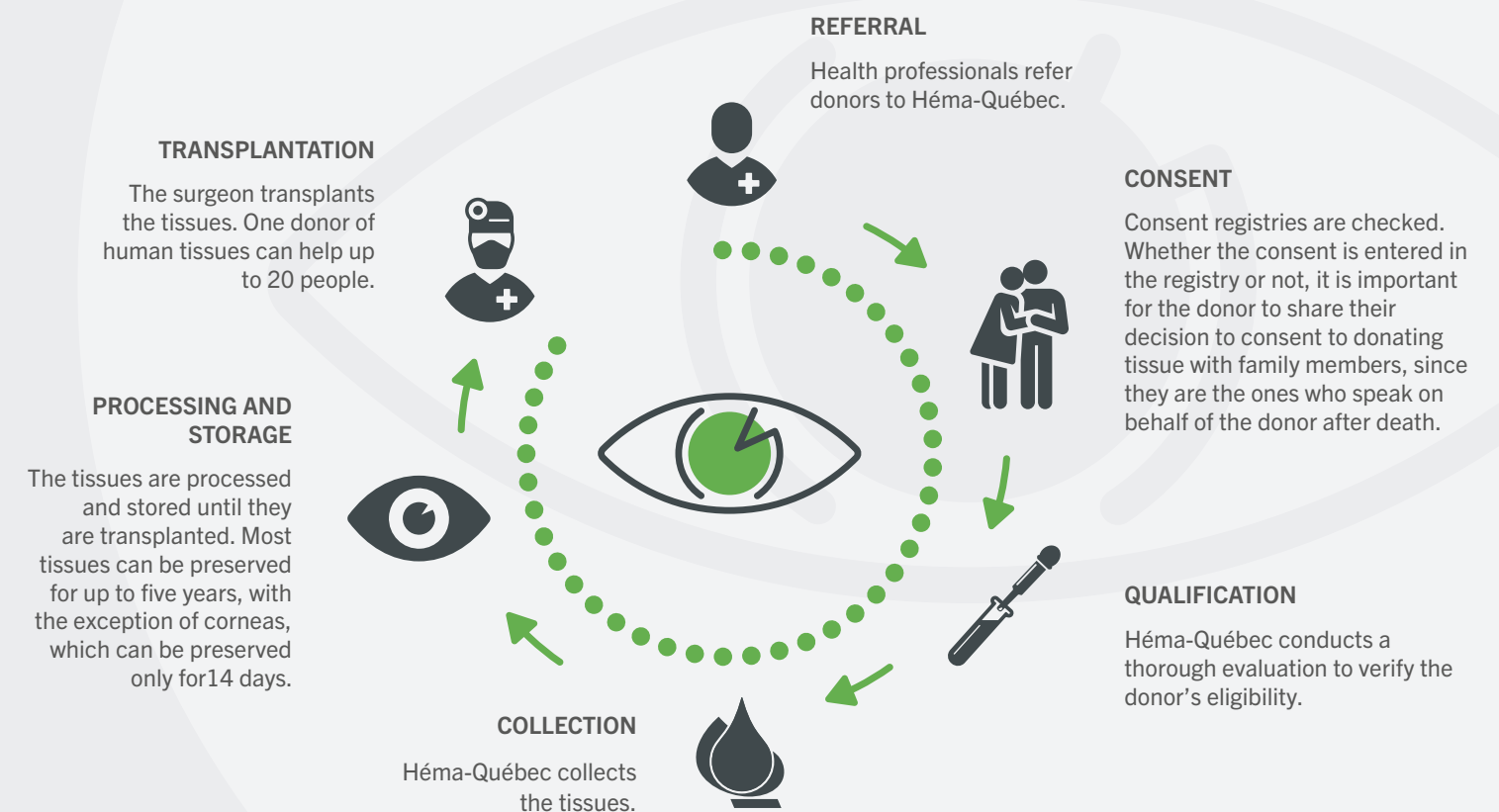
861
Tissue
DONORS

5,520
TISSUES
DISTRIBUTED
to hospitals

Human tissues
collected by
Héma-Québec



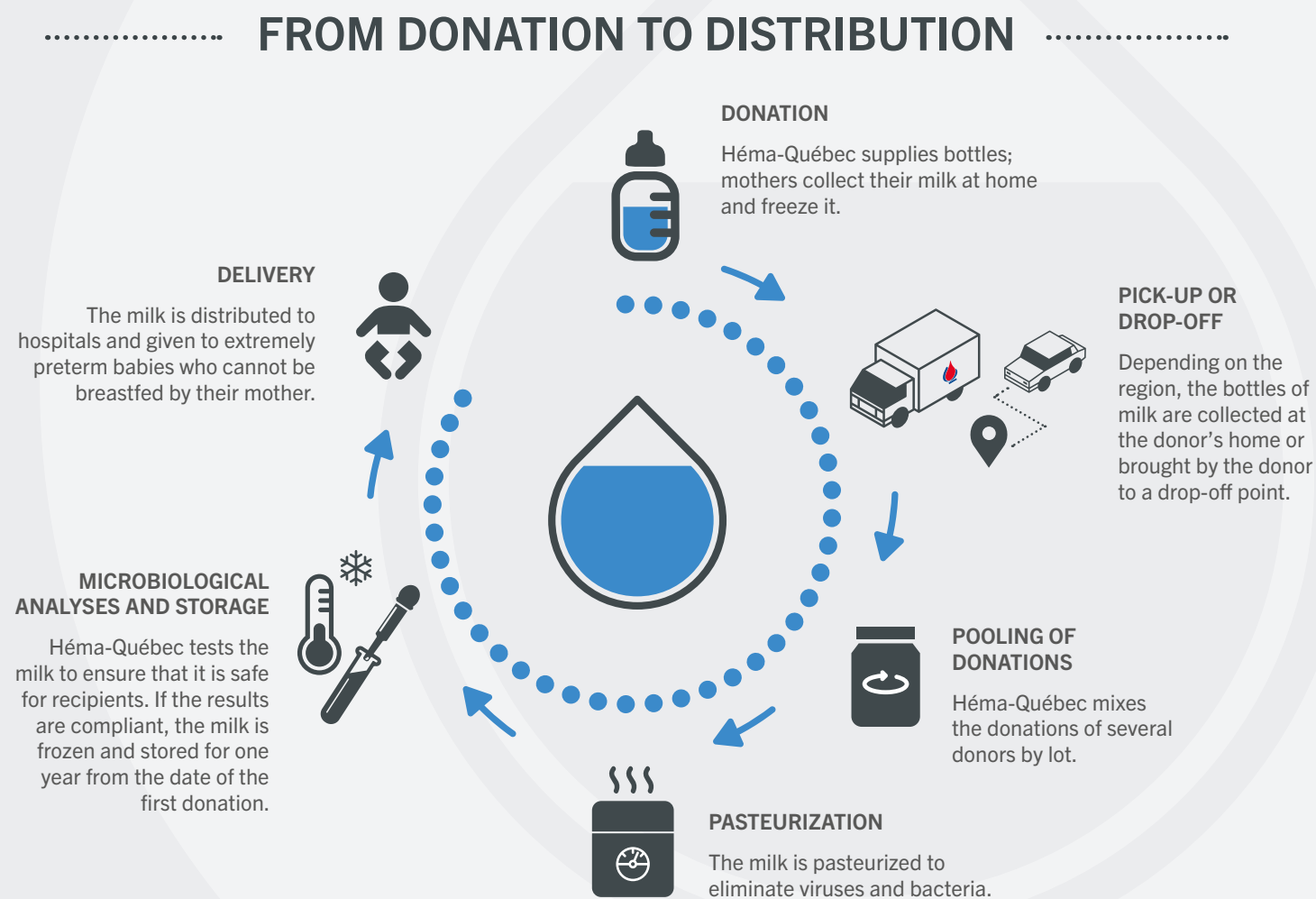
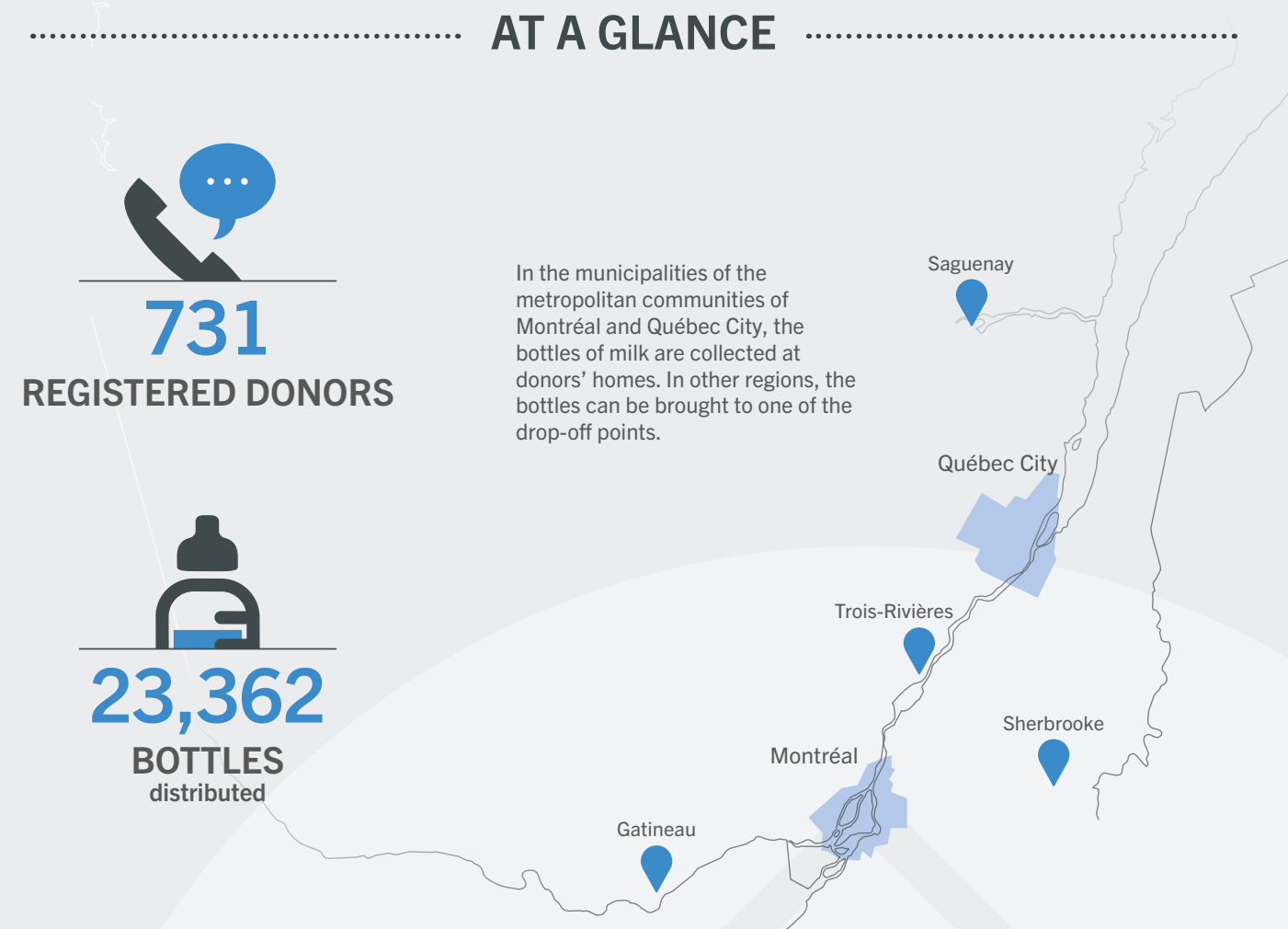
FROM REFERRAL TO TRANSPLANTATION





MOTHER'S MILK

Héma-Québec manages the Public Mothers' Milk Bank in Québec. Its mandate is to provide pasteurized human milk to infants born preterm at 32 weeks' gestation or earlier who require medical care and whose mother cannot breastfeed. The organization is responsible for donor recruitment and qualification, the processing and analysis of milk, as well as its distribution to hospitals.



SPECIALIZED LABORATORIES

In addition to meeting the needs of the Québec population as a supplier of biological products of human origin, Héma-Québec provides specialized laboratory services to its Québec healthcare system partners. In this role, it is recognized as a referral centre in the field of transfusion medicine.

AT A GLANCE



4,913

PATIENT REQUESTS REFERRED
to the reference laboratories



25,396

PHENOTYPED RED BLOOD CELLS
delivered to hospitals in Québec



134

SAMPLES TESTED
in 2021-2022

Transplant Québec

Héma-Québec's laboratories also support Transplant Québec by doing qualifying tests to determine whether a candidate for organ donation is a carrier of blood-borne infections.

FROM REQUEST TO SPECIALIZED PRODUCTS AND SERVICES

SCREENING OF STEM CELLS AND BLOOD PRODUCT DONORS

To ensure the supply of specialized products, the reference laboratories constantly perform screening tests of Stem Cell Registry donors, cord blood units and blood product donors to find a compatible person willing to donate.



REQUESTS AND SAMPLES

Health professionals send requests for testing and samples to the reference laboratories.



ANALYSES

Based on the type of request received, various tests may be performed, including identifying irregular antibodies, phenotyping, genotyping, and HLA typing.



REPORT

Once the tests are completed, the results are sent to the health professional who initiated the request.



SPECIALIZED PRODUCTS AND SERVICES

Based on the results, the health professional contacts Héma-Québec to find an adult donor or cord blood units for stem cell transplantation, or to provide specialized products, such as phenotyped packed red blood cells, washed blood, rare blood or typed platelets.



STRATEGIC PARTNERSHIPS

serving the health care system

The COVID-19 pandemic was an opportunity to use our expertise to serve public health in order to better understand and assess the advance of the pandemic.

SEROPREVALENCE STUDIES

Our experienced scientists and our access to a large pool of donors were brought into play in seroprevalence studies whose objective was to document the percentage of the Québec population who had contracted the virus causing COVID-19, in order to help the authorities in the decisions pertaining to the pandemic context.

PLASCOV BIOBANK

A biobank containing plasma samples (PlasCov) was created to collect and store plasma samples. This tool makes it possible to track the progress of vaccination's impacts on the pandemic. It also enables research to be carried out, including seroprevalence studies.

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Original text in French. In the event of a discrepancy between the English and French versions, the latter will prevail.



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www.hema-Quebec.qc.ca

