

BRIDGE TO A CURE FOUNDATION IS ON A MISSION TO UNITE AND TRANSFORM THE CHILDHOOD CANCER RESEARCH COMMUNITY TO REDUCE CHILDHOOD CANCER DEATHS 50% BY 2030.

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Dear Bridge To A Cure Family,

Our journey began with a promise—one born from love, forged through loss, and carried forward by hope.

On St. Patrick's Day 2016, my 4-year-old granddaughter Clara was diagnosed with glioblastoma, a terminal brain tumor. I promised Clara I would find a cure. Though she passed on October 8, 2017, her spirit remains, urging me each day: "Don't stop, Papa. The promise must be fulfilled."

Clara's compassion for others lit the way forward. Her fight opened my eyes to a devastating truth: childhood brain cancer steals not just lives, but futures. It inflicts relentless pain, emotional anguish, and lifelong scars—not only on young patients but on their families. Even survivors face a 95% chance of severe health issues later in life.

What began as a promise to one child has grown into a mission for all. A movement to transform the future of childhood brain cancer. A vision to cut the death rate in half by 2030.

At Bridge To A Cure, we've stayed focused on three imperatives:

- Data: Build a global, freely shared ecosystem for brain tumor research.
- · AI: Harness the power of generative AI to fuel faster discovery.
- Nontoxic Treatments: Pursue therapies that heal without harming.

The transformation is already underway:

- · Collaboration is replacing silos.
- · Data is fueling discovery.
- · Powerful algorithms are unlocking new possibilities.
- · Innovation is leading us toward safer, gentler treatments.

Now, we stand on the threshold of our boldest chapter: **the Fulfilling the Promise Initiative** — finding a brain tumor cure by 2030. To get there, we must reshape the culture of pediatric brain cancer research through:

- · Collaboration: Sharing initiatives, resources, and data.
- Focus: Channeling collective strength into fewer, more powerful breakthroughs.

At Bridge To A Cure, we live by one core value: **Promises Made, Promises Kept.**As we enter a new year, we embrace the renewal that follows even the fiercest storms.

Thanks to our extraordinary supporters and partners, 2024 brought both rain and rainbows. Together, we are changing the horizon for every child diagnosed with cancer—bringing clearer skies, gentler winds, and brighter tomorrows.



Roled Martin

Thank you for your continued support, Robert Martin, *Founder and President*



There is a magic in a child that defies words—a radiant light that fills the world with wonder. In their laughter, the universe sings; in their eyes, the promise of tomorrow gleams. Every step is a triumph, every discovery a revelation, their smallest joys transforming the ordinary into something sacred. They are both dreamer and dream, a living miracle wrapped in innocence and love.

On October 8th, 2017,
that miracle ended for my
granddaughter Clara.
Pediatric brain cancer.
For decades, thousands of
children have been robbed of
their dreams—and thousands
more will be unless we change
course. I promised Clara
I would not let that happen.
That promise is why I founded
Bridge To A Cure.

Robert Martii

THE STORM SURGES

For decades, childhood cancer treatment has been adrift, leaving our most vulnerable—our children—without a safe harbor.

Unprepared for the Storm: Only three new pediatric cancer drugs have been developed in 40 years. We're still using 1970s-era treatments, exposing children to the full force of this disease.

A Dangerously Low Bar: Survival is defined as just five years and doesn't account for serious lifelong consequences—secondary cancers, organ damage, and cognitive impairments.

Relentless Turbulence: Chemotherapy and radiation inflict unbearable pain, emotional distress, and financial devastation on families.

This is unacceptable. Our children deserve better. Bridge To A Cure Foundation is accelerating research, driving innovation, and advocating for policies delivering real cures—because survival should mean a lifetime, not just five years.



IN THE EYE OF THE STORM

The remarkable progress achieved in recent years has significantly validated the confidence in the unique collaborative approach adopted and championed by our research partners. This is due to a focused strategy that leverages robust data within a collaborative ecosystem, avoiding the drawbacks of the traditional competitive spirit that pits allies against each other. Still, something was missing within the support community. Before 2024, we experienced a period of relative stability that masked the storm ahead. However, the collaborative, data-driven methodology we champion has proven valuable to our research and commercial partners. In stark contrast, traditional foundation models ignored the value of a shared focus and data exchange that accelerated breakthroughs for children facing brain tumors.

The Tide Rises

To combat the surge, a new model that addresses three key concepts needs to be realized:

- Creating a robust data ecosystem
- Leveraging generative Al
- Development of safer therapies for children





A New Data Ecosystem

Funding cloud-based, open-source research platforms like CAVATICA and PedCBioPortal provide online access to vast data collections and advanced analytics, accelerating research. As an Executive Council Member of the Children's Brain Tumor Network (CBTN), Bridge To A Cure helped process over 800 new tissue samples this year, enriching the Pediatric Brain Tumor Atlas (PBTA) and deepening researchers' understanding of these complex tumors.

The PBTA, a massive dataset of more than a million data points, is driving new therapies for pediatric brain tumors. This past year, the PBTA moved to a new, more widely accessible home in the NIH-funded Gabriella Miller Kids First Data Resource Center. Researchers can use the robust tools offered in this platform, plus they can cross-reference PBTA data with 34 other pediatric and rare disease data sets.

Leveraging Generative Al

A focus on generative AI technologies, like the \$10 million RADIANT project, is transforming the future of cancer and rare disease research. Fueled by a groundbreaking partnership between government, academia, and industry, a grant awarded this past fall launched a real-time data integration model that empowers clinicians to uncover patient similarities across vast datasets—unlocking faster, smarter, and more personalized treatments that could save countless lives.

Safer Treatments for Children

A \$200,000 gift from Bridge To A Cure helped develop critical patient data pipelines for Al applications. Backed by funding from the NIH, ARPA-H, and philanthropic partners, we're advancing non-toxic therapies and harnessing the immune system's power—bringing us closer to a future where all children can conquer cancer.



WINDS OF CHANGE

Bridge To A Cure Foundation is driving a paradigm shift in pediatric cancer research by fostering collaboration and innovation. This past year saw an emergence of the M3 Approach to pediatric brain tumor research—a strategy that integrates:

- Multidisciplinary expertise
 (scientists, doctors, and data specialists from different specialty areas)
- Multi-omics data (genomics, proteomics, metabolomics)
- Multimodal information (imaging, clinical data, genetic data, and beyond)

Put, M3 leverages diverse data and expertise to tackle complex problems.

A Clearer Forecast for Progress

Consider it like tracking a hurricane—scientists use radar, satellite imagery, and eyewitness reports to predict its path and impact. The M3 Approach applies this same comprehensive strategy to cancer research, combining every available tool to develop more precise, personalized treatments.

This approach, along with groundbreaking technology, is pushing beyond traditional treatments to unlock new, life-saving therapies. Three promising areas of study that Bridge To A Cure explored in 2024 include:

- **Immunotherapy:** Training the body's immune system to recognize and destroy cancer cells.
- **Apoptosis:** Triggering cancer cells to self-destruct.
- Angiogenesis: Inhibiting blood vessel creation to stop the supply of nutrients a tumor needs to grow.

By embracing these innovations, we are paving the way for a future where individualized, targeted, and nontoxic therapies become the standard of care—giving children with cancer not just a better chance at survival, but a future filled with health, hope, and brighter tomorrows.



Despite challenges, progress is on the horizon. Bridge To A Cure and our partners at CBTN continued building an innovative global coalition of scientists, doctors, foundations, technology partners, and pharmaceutical companies leveraging data from 35+ healthcare systems to drive groundbreaking research.

We are creating a robust, integrated research ecosystem by aligning with organizations like the Pediatric Neuro-Oncology Consortium (PNOC), the INCLUDE Project, and international collaborators, alongside technological support from AWS, Mulesoft, and others.

These partnerships have the power to revolutionize pediatric cancer scientific discovery through:

- **Artificial Intelligence** Enabling faster, more precise diagnoses.
- Federated Learning Empowering local health systems to access data and resources from across the country
- A National Data Infrastructure Streamlining access to critical patient insights.

By harnessing these innovations, we are accelerating treatment breakthroughs and delivering personalized, life-saving solutions to children facing cancer.





Collaboration and Focus

While we have weathered relentless storms, fighting childhood cancer with limited resources and fragmented efforts, clearer skies are on the horizon.

The Storm is Breaking

The scientific community is tearing down silos, embracing unprecedented collaboration, and sharing data like never before. With Bridge To A Cure inspiring action, we are forging a new era of unity in the fight against pediatric cancer.

Collaborators

- Government Action Increased investment in programs like the Kids First Data Resource Center and public-private partnerships is fueling critical research.
- Pharmaceutical Commitment Industry leaders are stepping up with unparalleled support for pediatric cancer research.
- Innovative Partnerships New collaborations are emerging, promising breakthroughs in life-saving therapies.

As the storm clouds recede, philanthropy must rise to the occasion. Foundations must unite to maximize impact. Families must demand more. And the largest hospitals, with their vast resources, must answer the call to ensure every child receives the care they deserve.

The brighter future we've fought for is within reach—but only if we stand together to make it a reality.

Headwinds on the Horizon

Just as the skies begin to clear, strong headwinds threaten to stall our momentum and unravel hard-won progress. Decades of out-of-control spending in Washington has put our national economy and security at risk — the debt level is unsustainable, and it continues to get worse. As a result, drastic measures to rein in spending are required. Unfortunately, this will include the National Cancer Institute, a lifeline for the childhood cancer community.

As is often the case, "Within every adversity is an equal or greater benefit." The community must adopt this philosophy and engage in a community-wide reengineering initiative. One that will leverage the community's collective resources and eliminate inefficient and ineffective practices. The truth is that the pediatric brain tumor community has needed reengineering for decades. Government cutbacks provide the impetus to start — now!

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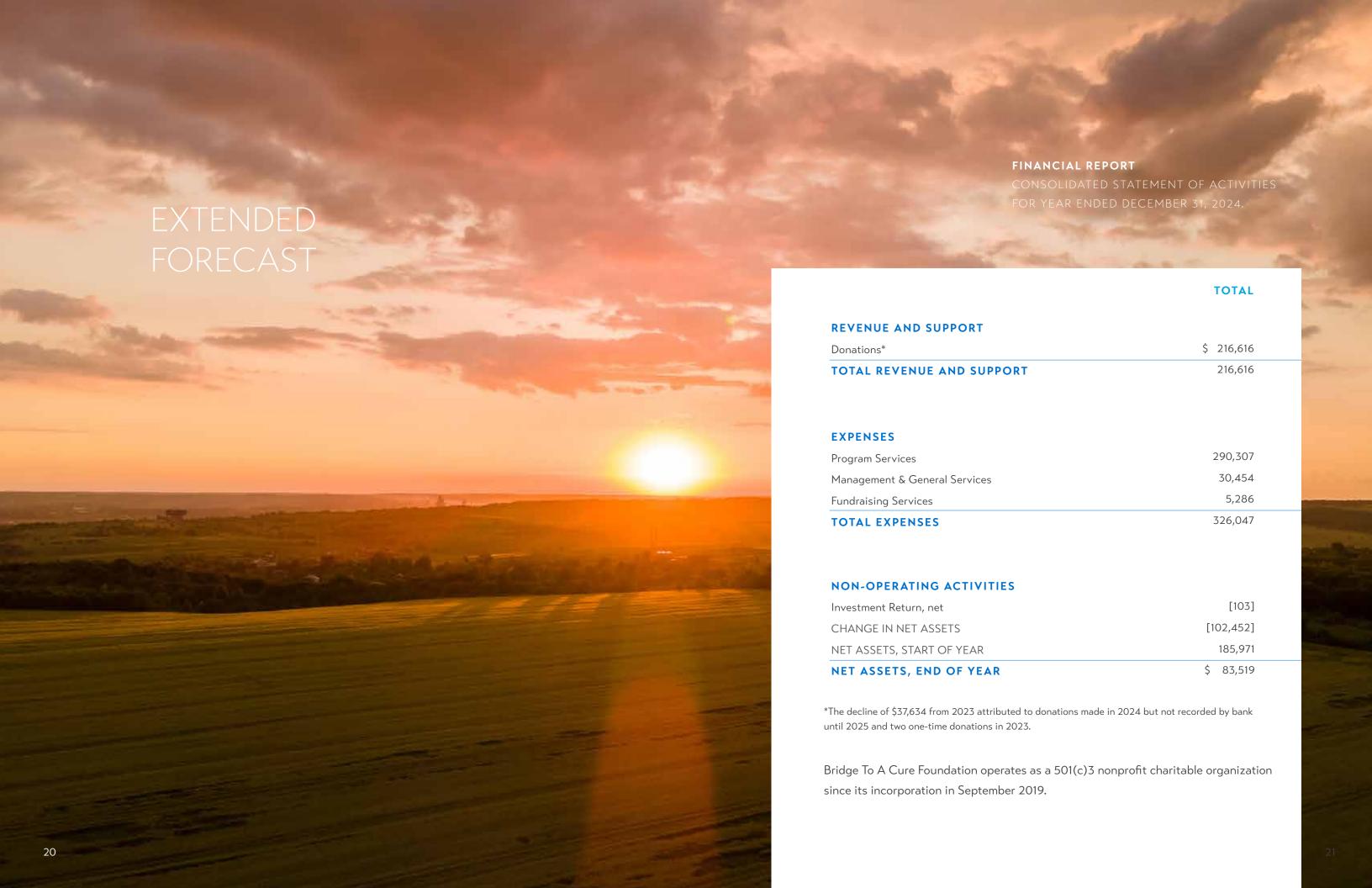
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while you make a difference.
Visit Bridge To A Cure.org for ideas
that bring "fun" to your fundraise.

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Write emails or set appointments with decision-makers and legislators forward our latest blog stories, and share social media content with your friends and connections

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Bridge To A Cure Foundation is a registered charitable organizatior with some of the nation's largest online retailers, including PayPal and eBay.

SHARE

If you've been touched by childhood cancer, we want to hear your story. We're ready to listen with resources compassion, and acceptance.

DONATE

Give once or give monthly when you visit Bridge To A Cure.org/donate.

For other ways to give, visit the website's support page to see check, stock, wire, employer matching, or legacy giving options.

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