DELIVERING ADVANCED DATA SOLUTIONS

USING CUTTING-EDGE TECHNOLOGY, SixtyOneC OFFERS A SMALLER, ENERGY EFFICIENT DATA CENTER
A TEAM OF TECHNOLOGY FOCUSED INDIVIDUALS DEVELOPING ENERGY-EFFICIENT COOLING SOLUTIONS

DRIVEN BY A PASSION TO INNOVATE AND A DEDICATION TO CREATE A NEW WAY FORWARD

SixtyOneC IS REDESIGNING THE DATA CENTER
All electrical data center equipment requires cooling.

Most data centers are **INEFFICIENT**, with up to 50% of energy costs dedicated to **COOLING**.
By merging **HIGH PERFORMANCE COMPUTING** with the most power-efficient **IMMERSION COOLING STRATEGY** available, we dramatically **INCREASE ROI**.
TWO-PHASE IMMERSION COOLING

SIXTYONE
SixtyOneC ELIMINATES THE NEED FOR:

- EXPENSIVE ROOM CONSTRUCTION
- PRICEY COOLING EQUIPMENT
- DEDICATED SPACES

BY COMBINING A NON-CONDUCTIVE FLUID PRODUCT FROM PRICEY COOLING EQUIPMENT WITH AN ENGINEERED SERVER CONTAINER IN TWO-PHASE IMMERSION COOLING,
The SixtyOneC design is more efficient, reducing cooling costs by **UP TO 97%**.

It allows more computing power in a smaller space, resulting in a **10x** reduction in square footage.
THE DETAILS
By using two-phase **IMMERSION COOLING**, our improved power efficiency increases density, compute performance and revenues.

**ADVANTAGES OF TWO-PHASE IMMERSION COOLING (2PIC)**

Computer hardware is submerged into a dielectric fluid engineered with a low boiling point. Warm vapor rises to a condenser passively transferring heat away from the equipment.

No Heat-sinks or fans are required.

**CIRCULATION OCCURS PASSIVELY WITHOUT EXPENDING EXTRA ENERGY**

**HIGHER EFFICIENCY AND RELIABILITY**

- Immersion fluid 4,000x more efficient at removing heat than air
- Innovative design reduces moving parts
- Reduced capital and operational expenses
- Improves hardware performance
- Ultra high density compute footprint

**VERSATILE DESIGN**

- Fits any form, size or shape of electronic components or boards
- Environmentally-friendly - extremely clean
- Non-flammable, inherent fire protection
- No raised floors or HVAC required
- HPC environment can be set up in any climate
Numerous potential failure points
Increased maintenance due to complexity
Increased deployment costs

**TRADITIONAL AIR COOLING**

- Hardware is placed in a tank of engineered fluid
- Hardware boils the fluid in the tank, pulling the heat away from the components
- Vapor condenses and returns to the tank as fluid

**IMMERSION COOLING**

1. Hot components turn fluid into vapor.
2. Vapor rises to the top
3. Vapor makes contact with condenser turning back into fluid
4. Fluid precipitates back passively into the fluid bath.

**TWO-PHASE IMMERSION COOLING**
Hardware is placed in a tank of engineered fluid. Vapor condenses and returns to the tank as fluid. Hardware boils the fluid in the tank, pulling the heat away from the components.

APPLICATIONS
**HIGH PERFORMANCE COMPUTING**

Anywhere a data center would be built, SixtyOneC will offer a **MORE COMPACT, MORE DENSE, MORE COST EFFECTIVE SOLUTION**.

SixtyOneC is less expensive to build, less expensive to run, and less expensive to maintain; perfect for new data center builds and retrofitting scenarios.

### UNDERSTANDING HIGH PERFORMANCE COMPUTING

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<th>POWER MANAGEMENT</th>
<th>PETAFLOP DENSITY</th>
<th>POWER USAGE EFFECTIVENESS (PUE)</th>
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<tr>
<td>We improve power management from transformer to rack by <strong>92% - 97%</strong></td>
<td>A petaflop (Pf) is measure of a computer’s processing speed. The higher the Pf, the higher the processing speed. A quadrillion floating point operations per second. Our design plan aims to push the boundaries of petaflop density. Each rack in our data center can deliver <strong>3 - 6 Pf</strong></td>
<td>Ratio of how efficiently a data center uses energy - how much energy is used by the computing equipment versus cooling and other overhead. The lower the PUE, the more energy efficient it is. Our PUE will be <strong>1.02 - 1.05</strong> (typical data center PUE is 1.8-2.1)**</td>
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As blockchain operations become more complex and demanding, energy costs can exceed profitable parameters both in mining and blockchain transaction maintenance.

By reducing cooling energy costs **by up to 97%**, SixtyOneC restores profitability and reliability to blockchain technologies.
SixtyOneC immersion cooled solutions enables significantly higher performance per server.

Drastically reducing the amount of hardware required in a data center.

This not only lowers the cost of ongoing operations, but also the initial cost of hardware deployment.
EDGE COMPUTING

Edge computing brings memory and computing power closer to the location where it is needed.
WHO WE ARE

DIETER MORGAN
Chief Executive Officer, Founder

Dieter Morgan has over 20 years of experience in the IT industry, working as a Network Administrator for companies such as Intrawest, Alexander Holburn, Beaudin and Lang. He has built and supported large scale data centers for PNI Digital media and more recently IQ Metrix. After working for Longview Systems as a managed services provider, he started his own boutique IT consulting services firm, with clients such as Fluff Designs, and Best Films Services. Dieter holds several technical certifications from Microsoft, Cisco and Comptia.

RICK MARGERISON
Chief Technology Officer, Founder

Rick Margerison brings 25 years of professional technology experience to SixtyOneC. His career has included roles such as Global Cybersecurity Architect at Great West Life, and data center Solution Architect for Crown Corporations. While at NEXT/IOGlobal, Rick worked as an Application Engineer and Lab Manager, assisting companies such as Dell, NVidia, HP and others with new "go to market" technologies and concepts. He has been a globally trusted advisor in High Performance Computing and High Performance Virtualized Environments for many years.

ALEX P. VELLA
Chief Operations Officer

Alex P. Vella is an experienced technology executive with over 20 years of strategic leadership in multi-national corporations, government agencies, and high-tech startups. He has served as a senior advisor to a number of Blockchain startups, and provided senior project management to Cisco Systems projects across a range of network types as well as advanced collaborative application systems. Alex received a BS in Management from the University of LaVerne and is PMP certified by the Project Management Institute (PMI) along with serving in both the U.S. Air Force Space and Telecommunications Command.

JOE BUSUTTIL
Senior Engineering Advisor

Results-producing design and management career spanning 40 years, demonstrating year-over-year improvements in engineering, quality, costs and delivery functions. Strong and decisive leader with excellent analytical, organizational and team building skills. Focus on high-quality standards and bottom line profit improvement. Utilized lean manufacturing, 5S theory for housekeeping and implemented (JIT) Just In Time manufacturing environments. Worked in the Automotive, Aerospace and Energy Sectors.

ORRETT MORGAN
Advisor, Founder

Orrett has over 20 years of experience in the IT industry. Prior to joining the British Columbia Institute of Technology (BCIT) he was a System Administrator for Whitewater West Industries, and Lang Michener (McMillan LLP) in Vancouver. Orrett became an instructor at BCIT, where he was the Program Head for the High Tech Professional Department. Orrett pioneered the adoption of a blended learning model, specifically designed for modern learners. Orrett holds a Masters Degree from Royal Roads University and technical certifications from Microsoft and Comptia.

GEORGE TRUDEAU
Director of Research and Development

George Trudeau was a Senior Electrical Designer and Project Manager in the Electrical Consulting Industry for MCW Consultants. He has worked for over 8 years designing and overseeing the construction of commercial, industrial, and institutional facilities. He has worked for over 4 years designing the metering and protection controls for high voltage electrical components used in utilities. Prior to working in the Electrical Consulting Industry, he has worked for over 10 years in the manufacturing and fabrication of industrial metals. He holds a Project Management Certificate from Red River College.

KEVAN MATHESON
Corporate Development

Kevan Matheson holds a Bachelor of Commerce, with specializations in International Business and Entrepreneurship. He was a former member of RBC’s Institutional Asset Management team, with a focus on account management, corporate strategy, blockchain application research, and big data analytics. He has worked in cryptocurrency mining, venture capital, carbon trading, data centers, and has authored a book on cryptocurrency. A sought-after speaker, his knowledge of technology and experience from institutional finance helps market SixtyOneC, while helping to build out corporate strategy.

PHIL TUMA
Advisor, Advanced Application Specialist

Phil Tuma is an Advanced Application Development Specialist in the Electronics Materials Solutions Division of 3M Company. He has worked for 19 years developing applications for fluorinated heat transfer fluids in various industries. His current work is focused on developing techniques that facilitate the use of passive 2-phase immersion techniques for cooling power electronics and computer equipment. He holds a BA from the University of St.Thomas, a BSME from the University of Minnesota and a MSME from Arizona State University.

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Advisor, Founder
FOWARD-LOOKING STATEMENTS

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