Forward Looking Statements

This presentation contains “forward-looking statements” which reflect the current expectations of management of the Company’s future growth, results of operations, technological development and implementation, performance and business prospects, opportunities, and illustrations and prototypes of the SPORT™ Surgical Systems. Wherever possible, words such as “may”, “would”, “could”, “will”, “anticipate”, “believe”, “plan”, “expect”, “intend”, “estimate” and similar expressions have been used to identify these forward-looking statements. These statements reflect management’s current beliefs with respect to future events and are based on information currently available to management. Forward-looking statements involve significant risks, uncertainties and assumptions. Many factors could cause the Company’s actual results, performance, achievements or technological development and implementation to be materially different from any future results, performance, achievements or technological development and implementation that may be expressed or implied by such forward-looking statements, including, without limitation, those listed in the “Risk Factors” section of the Company’s Annual Information Form in respect of the fiscal year ended December 31, 2015 and other information contained in the Company’s public filings (which may be viewed at www.sedar.com). Information contained in this presentation is qualified in its entirety by such public filings. Should one or more of these risks or uncertainties materialize, or should assumptions underlying the forward looking statements prove incorrect, actual results, performance or achievements may vary materially from those expressed or implied by the forward-looking statements contained in this presentation. These factors should be considered carefully and prospective investors should not place undue reliance on the forward-looking statements. Although the forward-looking statements contained in the presentation are based upon what management currently believes to be reasonable assumptions, the Company cannot assure prospective investors that actual results, performance or achievements will be consistent with these forward-looking statements. This presentation does not constitute an offer to sell any class of securities of the Company in any jurisdiction.
Titan Medical Overview

Designer and developer of the **SPORT™ Surgical System**, a highly versatile single incision advanced surgical system that significantly expands the addressable market for single and multi-quadrant abdominal surgeries performed using a robotic platform. The system is designed to provide improved clinical capabilities and operating room (OR) efficiency at operating costs similar to traditional laparoscopic surgery.
Investment Considerations

• **Addressing market opportunity for robotic surgery valued at $20 billion** by 2021

• Highly versatile single incision advanced surgical technology based on 14 patents and 31 patent applications pending

• **Substantial benefits to patient, surgeon and hospital versus competitive offerings**

• Added features, increased OR flexibility, lower cost and improved economics versus competitive offerings

• **Highly experienced management team with a significant track record of success**

• Attractive razor/razor-blade business model

Robotic Surgery Market Opportunity

Total market opportunity for robotic surgery valued at $20 billion
$10B Capital Revenue Opportunity

US HOSPITALS FOR ROBOTIC SYSTEMS

~ 10,500 Placement Opportunities with $10B Capital Revenue Potential

(1) Based on an estimated 1 system per hospital at $950K per system
$3.75B in Annual Recurring Revenue

- $3,000,000,000
- $2,500,000,000
- $2,000,000,000
- $1,500,000,000
- $1,000,000,000
- $500,000,000
- $0

Service Revenue

- $1,050,000,000

Procedure Revenue

- $2,700,000,000

- ~ 2.5M Available Procedures with $2.7B Procedure Revenue Potential (2)

- ~ 10,500 Placement Opportunities with $1.05B Service Revenue Potential (1)

(1) $100K of annual service revenue
(2) $1,075 per procedure revenue
Evolution of Surgical Care

Open Surgery
- Broad application
- Requires significant hospital stay and recovery time
- Significant risk of adverse events

MIS
- Minimally Invasive Surgery (“MIS”) has been a growing trend over the past 25 years
- Reduced hospitalization time
- Reduced risk of adverse events
- Requires highly skilled surgeons

Robotic Surgery
- Further expands upon the benefits of MIS
- Robotic procedures have grown from 1,000 procedures in 2000 to 650,000* in 2015
- However, technology remains expensive with procedural and operational limitations

Titan Medical SPORT
- Premier solution designed to transform the challenges facing robotics today
- More affordable, agile and versatile as compared to existing robotic solutions

* Source: Intuitive Surgical Earnings Call Transcript for Q4 2015
Today’s Robotic Surgery Environment

To mitigate the downside of minimally invasive surgery (MIS) and improve surgical care of patient outcomes, robotic technology was introduced to the operating room:

<table>
<thead>
<tr>
<th>Benefits</th>
<th>Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased Dexterity</td>
<td>High Cost of Entry</td>
</tr>
<tr>
<td>Improved Visualization (3D)</td>
<td>Large Footprint</td>
</tr>
<tr>
<td>Improved Ergonomics</td>
<td>High Level of Training</td>
</tr>
<tr>
<td></td>
<td>Increased Cost For Each Case</td>
</tr>
<tr>
<td></td>
<td>Reduced Operational Efficiency (Long Setup Time)</td>
</tr>
<tr>
<td></td>
<td>Low ROI for Hospitals</td>
</tr>
<tr>
<td></td>
<td>Limited Procedural Capability</td>
</tr>
</tbody>
</table>

In 2015, only 650,000 (approximately 16%) surgeries out of a possible 4,000,000 were completed using robotic surgical technology.
## SPORT: Benefits

<table>
<thead>
<tr>
<th>Benefits to Patient</th>
<th>Benefits to Surgeon</th>
<th>Benefits to Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Less Pain</td>
<td>- Improved Visualization with 3D High-Definition Vision</td>
<td>- Decreased Length of Hospital Stay</td>
</tr>
<tr>
<td>- Quicker Recovery</td>
<td>- Improved Dexterity With Multi-Articulating Instruments</td>
<td>- Increased Patient Satisfaction</td>
</tr>
<tr>
<td>- Fewer and Smaller Scars</td>
<td>- Easier and Shorter Learning Curve</td>
<td>- Potentially Longer Operating Careers of Surgeons</td>
</tr>
<tr>
<td>- Shorter Hospital Stay</td>
<td>- Improved Precision</td>
<td>- Increased Surgical Case Volume</td>
</tr>
<tr>
<td>- Reduced Blood Loss</td>
<td>- Improved Ergonomics</td>
<td>- Employee Participation and Retention</td>
</tr>
<tr>
<td>- Reduced Risk of Infection</td>
<td>- Automation of Tasks and Subtasks</td>
<td>- Improved ROI - Clinically, Financially, and Operationally</td>
</tr>
</tbody>
</table>
SPORT: Robotic Surgery Optimized

- Ergonomic Mobile Workstation
- Open 3D High Definition Visualization
- Natural Multi-articulated Handle Control Interface
- Camera Insertion Tube with Self-Cleaning Lens
- Multi-Articulated Instruments with Replaceable Tips
- Single-Arm Mobile Patient Cart
SPORT Workstation

- Ergonomic focused design
- Natural multi-articulated handle interface
- Open un-obtrusive 3D high-definition display platform
- Multi-configurable elbow rest and foot pedal positioning
- Auxiliary touchscreen monitor to interface with hospital information systems, including picture archiving and communication system (PACS) for images
- Easily maneuverable with swiveling easy gliding coasters
SPORT Patient Cart

- Single-arm configuration
- Mobile, compact, transportation capability
- Easy to maneuver and position main central unit
- Easy to load and unload camera insertion tube (CIT) and instrument interface
- Single cable for easy cable management in OR
SPORT CIT and Instruments

- Camera insertion tube (CIT) includes a self-cleaning dual channel camera and accommodates 2 multi-articulating instruments
- 10 multi-articulating multi-use instruments with single-use replaceable end-effector tips
- Monopolar, bipolar, vessel sealing and clip applier capabilities
- Multi-quadrant access
**Intellectual Property**

The SPORT system is a single incision robotic surgical system that has been developed from the ground up with a unique technical footprint.

<table>
<thead>
<tr>
<th>Patents &amp; Patent Applications</th>
<th>Licensed Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 12 U.S. Patents</td>
<td>- 2 U.S. Patent</td>
</tr>
<tr>
<td>(PCT, US, EP, CA, CN, JP, IN)</td>
<td></td>
</tr>
</tbody>
</table>

The Company anticipates expanding its patent portfolio by filing patent applications as it progresses in the innovative development of robotic surgical technologies and by licensing suitable technologies.
## Competition

### Critical Features for Robotic Surgery

<table>
<thead>
<tr>
<th>Feature</th>
<th>SPORT™</th>
<th>daVinci®</th>
<th>SurgiBOT™</th>
<th>Senhance™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Articulating Instruments</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3D High-Definition Visualization</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Natural Handle Mapping and Control</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ergonomic Surgeon Workstation/Console</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Needle Driver, Graspers, Monopolar, Bipolar, Advanced Instruments</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dual Channel Endoscope for High-caliber 3D Image Capture</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mobile, Low Profile Footprint with Minimal Cables (Ease of Transportation)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ease of Setup (single arm is easy, having multiple arms is complex)</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Quick and Easy Intraoperative Multi Quadrant Access</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Tips for each procedure (No compromise on instrument performance)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open, Non-isolated Display (Surgeon always has direct view of OR table)</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Scope Lens-washing Capability (Minimal scope cleaning adds to efficiency)</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool or Eye tracking Camera Movement (Least disruptive to procedural flow)</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

Source: Product Information from Intuitive Surgical and TransEnterix websites
## SPORT Hospital Savings Per Procedure

<table>
<thead>
<tr>
<th></th>
<th>SPORT™</th>
<th>daVinci®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Cost</strong></td>
<td>$950,000&lt;sup&gt;(1)&lt;/sup&gt;</td>
<td>$1,800,000&lt;sup&gt;(2)&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>No. of Cases Amortized Over (7 years at 150 per year)</strong></td>
<td>1,050</td>
<td>1,050</td>
</tr>
<tr>
<td><strong>Amortized Robot Cost Per Case</strong></td>
<td>$905</td>
<td>$1,714</td>
</tr>
<tr>
<td><strong>Instrument and Accessory Cost Per Case</strong></td>
<td>$1,075</td>
<td>$1,835</td>
</tr>
<tr>
<td><strong>Annual Service Agreement</strong></td>
<td>$95,000</td>
<td>$180,000</td>
</tr>
<tr>
<td><strong>Amortization Period (150 cases)</strong></td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td><strong>Cost of Service Agreement Per Case</strong></td>
<td>$634</td>
<td>$1,200</td>
</tr>
<tr>
<td><strong>Estimated Cost Per Procedure</strong></td>
<td>$2,614</td>
<td>$4,749</td>
</tr>
</tbody>
</table>

<sup>(1)</sup> All costs are estimates

<i>Initial cost of daVinci will vary based on features purchased.</i>

<sup>(2)</sup> All costs are estimates; Initial cost of daVinci will vary based on features purchased.
Voice of Customer – 2016 Trade Shows

• The SPORT Surgical System was first unveiled at Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) 2016 Annual General Meeting in Boston in March 2016
• Tremendous positive response (see photos) with more than 800 surgeons viewing the technology and attending demos

• Titan was present at the Society of European Robotic Gynecological Surgery (SERGS) Annual Meeting in June 2016
• The SPORT Surgical System was on display at the World Robotics Gynecology Congress (WRGC) in August 2016 for a first unveiling to robotic gynecological (GYN) community
• The SPORT Surgical System was featured in a surgeon presentation at the EAU Robotic Urology Section (ERUS) Meeting in September 2016
Clinical Adoption Strategy

- **Develop clinical support** – Regional Centers of Excellence by Specialty
- **Develop executive support** – Executive Champions Network for Execution Guidance
- **Deliver “ROI” to support the program** investment for Healthcare Institutions
- **Train, support and service our customers**
# Financial Snapshot

<table>
<thead>
<tr>
<th><strong>Share price (TMD)</strong></th>
<th>$0.51 (As of October 31, 2016)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shares outstanding</strong></td>
<td>166.5 million FD*</td>
</tr>
<tr>
<td><strong>Management ownership (9/30/16)</strong></td>
<td>4.03%</td>
</tr>
<tr>
<td><strong>Cash, cash equivalents (10/31/16)</strong></td>
<td>$6.6 million</td>
</tr>
</tbody>
</table>

*Fully diluted includes, under the Treasury Stock method, that portion of 7,281,935 options, with a weighted-average exercise price of CDN $1.11, that are in the money as well as warrants issued and outstanding, that are in the money.*
Summary

- Addressing market opportunity for robotic surgery valued at $20 billion* by 2021
- Highly versatile single incision advanced surgical technology based on 14 patents and 31 patent applications pending
- Substantial benefits to patient, surgeon and hospital versus competitive offerings
- Added features, increased OR flexibility, lower cost and improved economics versus competitive offerings
- Highly experienced management team with a significant track record of success
- Attractive razor/razor-blade business model
Leadership Team

David J. McNally, President, CEO and Director
- Founder, President, CEO & Chairman Domain Surgical Inc., developer, manufacturer and marketer of advanced energy surgical platform, merged with OmniGuide 2016.
- Co-founder, President & CEO ZEVEX International, Inc. (NASDAQ: ZVXI), developer, manufacturer and marketer of award-winning medical devices, acquired by MOOG Inc. in 2007 (NYSE: MOGA and MOGB).

Stephen Randall, CFO
- 19+ years of Executive level experience
- Extensive experience in accounting, finance, capital markets, tax planning, compliance, IT management, mergers/acquisitions and operations

Sachin Sankholkar, Vice President, Marketing
- 15+ years of robotic device development, launch and marketing experience at Intuitive Surgical, +19 Years of med device experience
- Exceptional surgeon network and KOL development expertise in GYN, urology, general, colorectal and bariatric surgery

Chris Selbert, Vice President, Corporate Accounts
- 10+ years of robotic sales and management experience at Intuitive Surgical and Stereotaxis, +12 Years of total Med Device Experience
- Entrenched IDN/GPO sales channel expertise and C-level access/network within top GPOs/IDNs

Frederic Nahon, Vice President, Sales EMEA and Asia
- 12+ years of capital/clinical sales management experience at Intuitive Surgical, Stereotaxis and Imacor
Thank You

TSX: TMD | OTCQX: TITXF