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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health



National Institutes of Health Commercialization Assistance Program
(NIH-CAP)

Company Profile

Industry Sector: Medical devices for high resolution x-ray imaging.

Company Overview: MDI is an established technology company that develops instrumentation for specialized glass processing and high value glass-based optical materials. MDI was formed in 2006 and it is located near Chicago in the Evanston Technology Innovation Center.

Target Markets: The annual world market for x-ray imaging equipment is ca.7B\$ and it exhibits 3.5% growth. The U.S. market is ca. 1 B\$. MDI is targeting major hospitals in North America and Europe, women's health/breast care centers, diagnostic imaging and outpatient surgery centers as end users.

MDI is also exploring dental applications and non-medical applications such as non-destructive testing.

Key Value Drivers

- Enhanced patient outcomes through lower x-ray and earlier, more reliable detection and diagnosis of breast tumors and other challenging to detect cancers (e.g. lung, bone)
- Improved image quality for radiologists and physicians to use in diagnosis and monitoring of treatment
- Cost-effective, competitive technology that enables medical device vendors to expand existing markets and enter new ones
- Reusable, rugged packaging that allows efficient use of resources and digital storage of images

Competitive Advantage: MDI's X-Ray plate is a cost-effective solution for high resolution, low dosage soft tissue and dental imaging. MDI's approach will allow for enhanced patient outcomes through early-stage cancer detection. MDI's X-Ray plate is targeting <25 μm resolution.

Company Team

Leadership: MDI has assembled a team with complementary skills in technology development and business. These are leveraged by networking and collaboration to access additional skills and capabilities.

Richard Weber – President, 25 years experience in commercial development of optical devices technologies.

Amit Tailor – Lead Scientist, developed key image plate processing technologies.

Mary Doxas – Business Administration, experienced technical business administrator.

Scientific Advisors:

Dr. J.A. Johnson, University of Tennessee – expert in advanced medical imaging technologies.

Dr. A.R. Lubinsky, Stony Brook University – expert in readout and data analysis.

Dr. R. Nishikawa, University of Chicago – radiologist with expertise in soft tissue.

Technology Readiness

- IP secured
- Glass image plates developed and production process documented
- Performance benchmarking in progress to obtain regulatory clearance
- Packaging and prototype under development

Plan & Strategy: Seeking strategic partners or investors to fund scale up and regulatory approvals. MDI plans to continue basic R&D and monetize the medical imaging technology through a spin-off. Partnering and investment will leverage the business to accelerate product launch.

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