



Canada's national laboratory
for particle and nuclear physics
and accelerator-based science



AAPS – November 2016 Update for TARA

Don Furseth
Interim President and CEO

November 17, 2016



CECR

To Dec 31, 2015

Transition

Now

New AAPS

Q1 2017

**CECR obligations
(completed)**

**Mandate from TRIUMF, not NCE. Funded from
commercial revenue, royalties, industry projects, etc.**

AAPS Board Resigns:
last day Dec 31, 2015

Interim AAPS Board (Jan 1 to
June 30) completed CECR
reporting; Interim President
& CEO (March 1 to
December)

New AAPS Board
(**November**)
Full-time CEO
(**December**)

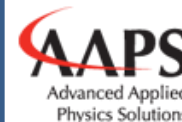
Final CECR report provided to
NCE (July 31, 2016.)
CECR Exit date:
November 30, 2016.

Management Services
Agreement (**finalize by Mar
31**). Strengthen commercial
framework. Prepare for full-
time AAPS CEO.

TRIUMF's not-for-profit
commercialization arm
(ongoing, sustainable)

Create a climate of
**Innovation &
Entrepreneurship**

- Manage **TRIUMF's IP**
- Disclosures → license/assign
 - NDAs, disclosures



Increase TRIUMF Commercial **Revenue**

Generate & Manage
**New
Opportunities**

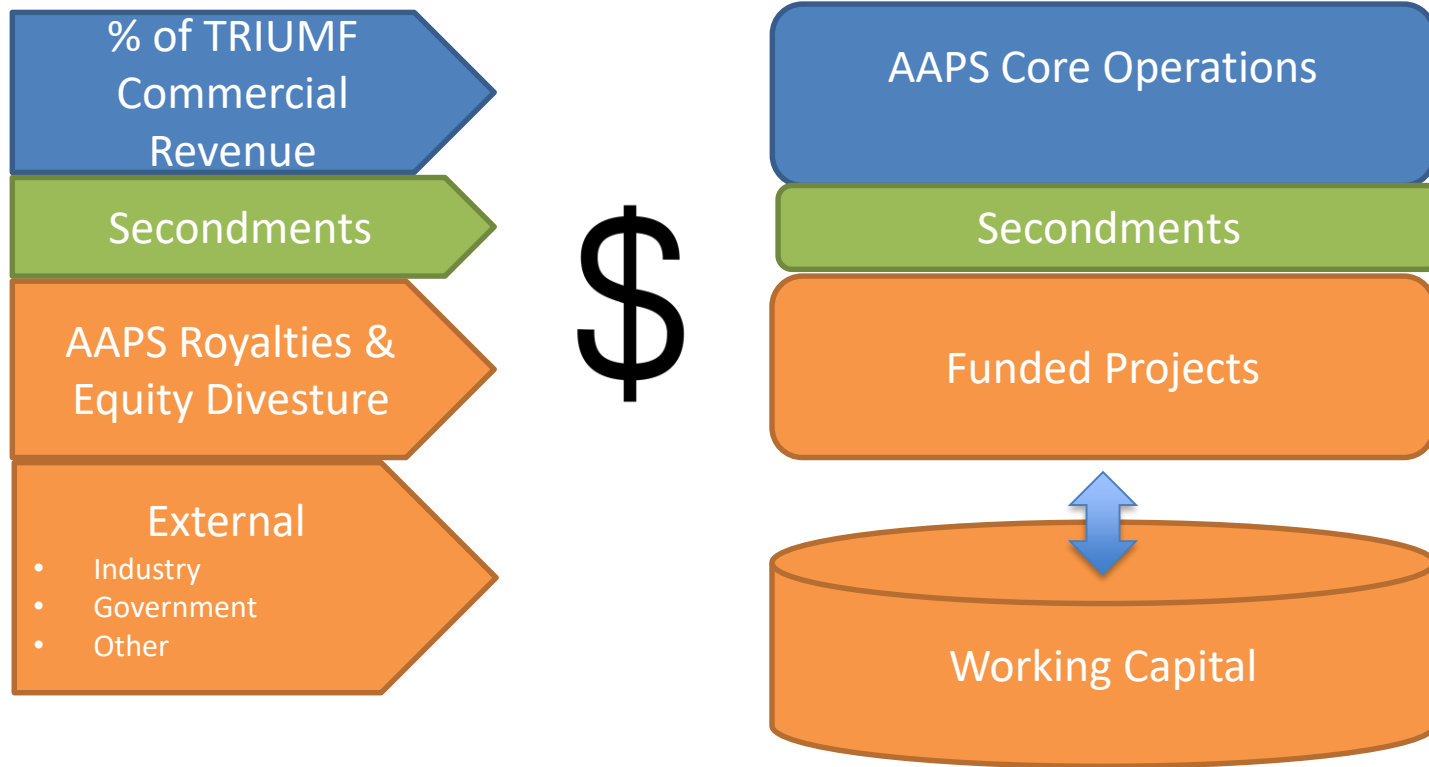
Pathways:

- **Products & Services**
- **Licensing**
- **Start-ups / JVs**

Manage **Industry**

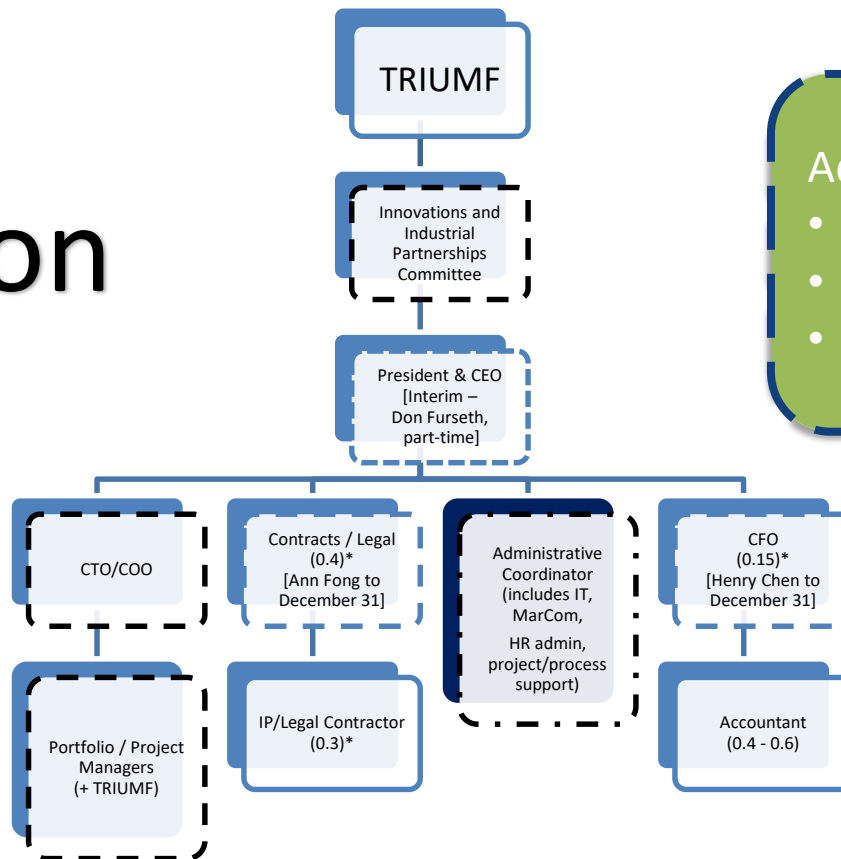
Relationships & Agreements

- PIF/NIF - industry
- Nordion, D-Pace, ACSI
- Industry alliances



AAPS Transition Team

Consultants
(therapeutic
isotopes):
Kevin McDuffie
Tom Ruth

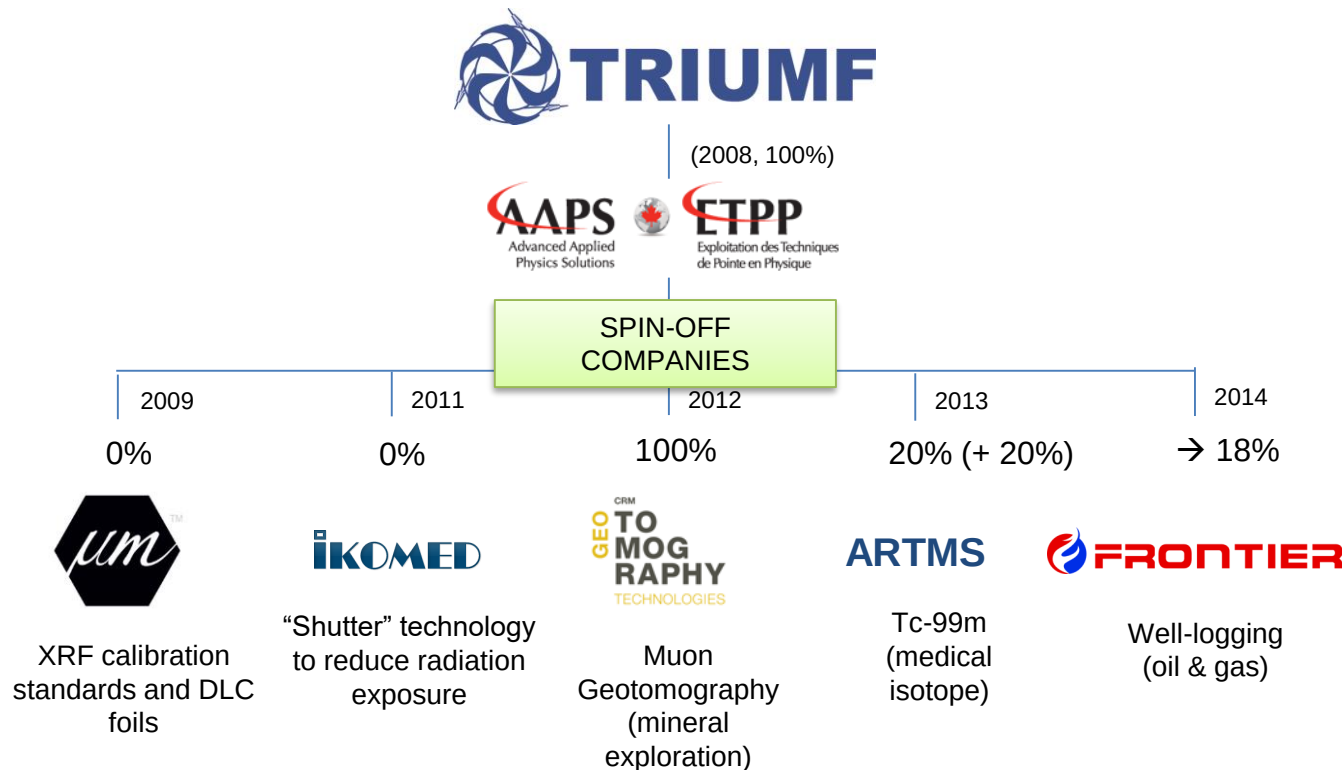


*Shared TRIUMF resource

Advisors:

- Subject Matter Experts
- Industry
- Innovation ecosystem

Seconded AAPS
Employees
(e.g., Life Sciences: 1,
Frontier Sonde: 1)





In 2009, AAPS acquired the assets of Micromatter Inc., a U.S. niche manufacturer of X-Ray fluorescence (XRF) calibration standards. The assets were complementary to the diamond-like carbon thin film coating expertise of AAPS scientists.

In 2014, the assets and business of the division were sold to the senior engineer responsible for the commercial development of this technology.

Update:

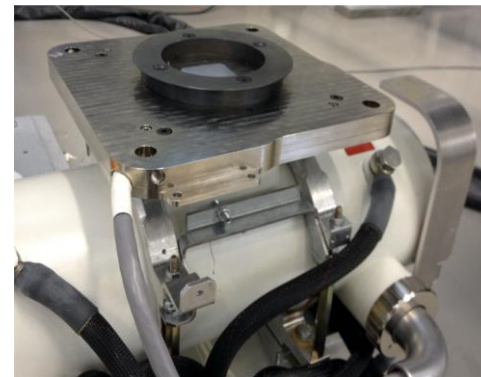
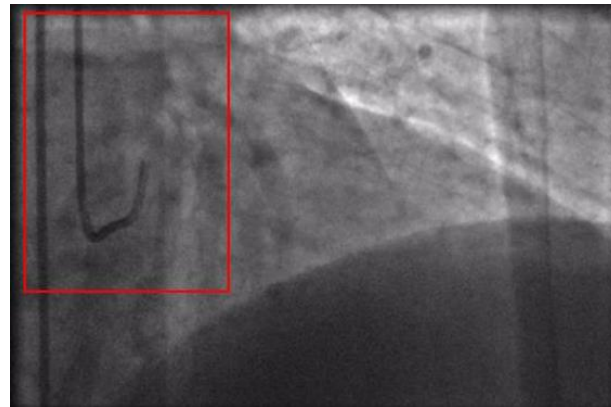
- Winner of a Surrey Business Innovation Award
- Now manufacturing XRF windows





IKOMED developed a patented system to reduce X-ray radiation exposure to both patients and medical staff during minimally-invasive surgery.

(Verbal update only –
Commercially Sensitive)

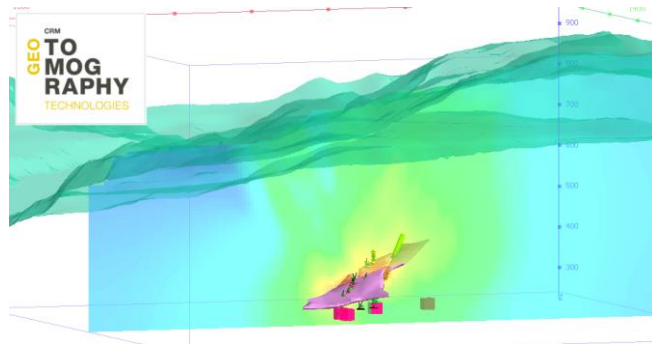




CRM GeoTomography Technologies uses cosmic ray muons to help mining companies reduce exploration costs by providing geologists with 3D insights of dense ore bodies.

Thanks to WD/AAPS/NRC-IRAP and the development team, the technology has advanced from proof of concept to commercial capability.

(Verbal update only –
Commercially Sensitive)





System can provide measurements on porosity, water saturation, gas detection, location and monitoring of gas/oil and water/oil contacts, and uses innovative algorithms and localization tools for specific oil field formations.

Aids oil and gas companies to locate residual oil reservoirs and enhance oil recovery.

Update:

- Successful Canadian Field Trials
- Additional investment pending patent filing (November)



ARTMS

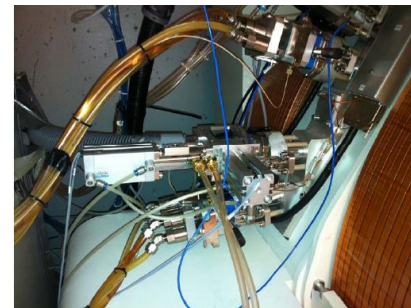
AAPS founded ARTMS, Inc. to commercialize cyclotron based Tc-99m production.

Update:

- Owned by ITAP Consortium & AAPS
- Governance: Board in place.
- Clinical trials well underway
- Investment pending: from Accel-Rx and European firm.
- Other discussions (e.g., China)



TR19 target assembly



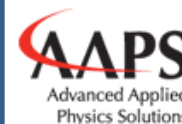
PETtrace target assembly

Other news:

- Nordion – Last NRU Mo-99 shipment October 31
- SRF – PAVAC bankrupt. Other options for SRF licencing to be explored.
- D-Pace/Buckley:
 - Ion Source Test Facility completed (NZ)
 - UniBEaM (Universal Beam Monitor) launched
 - Involved in CANREB High Resolution Spectr.

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Carleton | Guelph | Manitoba | McGill | McMaster |
Montréal | Northern British Columbia | Queen's |
Regina | Saint Mary's | Simon Fraser | Toronto |
Victoria | Western | Winnipeg | York

Thank you! Merci!

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