



INVESTOR DAY 2021





Welcome

Mark Kratz
Vice President, Investor Relations



BWXT®

Forward-Looking Statements Disclaimer



BWX Technologies, Inc. (“BWXT”) cautions that statements in this presentation that are forward-looking and provide other than historical information involve risks and uncertainties that may impact actual results and any future performance suggested in the forward-looking statements. The forward-looking statements in this presentation include, but are not limited to, statements relating to our 2021 and future strategic priorities, including U.S. Navy procurement, microreactors, advanced nuclear fuels, medical radioisotope industrialization and organic growth opportunities; bookings and backlog, to the extent they may be viewed as an indicator of future revenues; the expected U.S. Navy long-term procurement schedules and forecasts; estimated pension costs; expected future capital expenditure levels; the expected Canadian nuclear power forecast for services, refurbishment timelines and opportunities; disruptions to our supply chain and/or operations, changes in government regulations and other factors, including any such impacts of, or actions in response to the COVID-19 health crisis; our outlook, priorities, growth opportunities in our businesses; and guidance for 2021 and beyond. These forward-looking statements are based on current management expectations and involve a number of risks and uncertainties, including, among other things, the availability of federal appropriations to government programs in which we participate; our ability to win new project awards; capital spending of power generating utilities; the extent to which the COVID-19 health crisis impacts our businesses; the impact of COVID-19 on our employees, contractors, suppliers, customers and other partners and their business activities; the extent to which the length and severity of the COVID-19 health crisis exceeds our current expectations; the potential recurrence or subsequent waves or strains of COVID-19 or similar diseases; the actions to contain the impact of such diseases and potential employee unrest; adverse changes in the industries in which we operate; termination, delays and other difficulties executing on contracts in backlog and adverse changes in the demand for or competitiveness of nuclear products and services. If one or more of these or other risks materialize, actual results may vary materially from those expressed. For a more complete discussion of these and other risks, please see BWXT’s filings with the Securities and Exchange Commission, including our most recent annual report on Form 10-K and subsequent quarterly reports on Form 10-Q. BWXT cautions not to place undue reliance on these forward-looking statements, which speak only as of the date of this presentation, and undertakes no obligation to update or revise any forward-looking statement, except to the extent required by applicable law.

Agenda and Speakers



8:30 am

Welcome

Mark Kratz

Vice President, Investor Relations

Overview and Strategy

Rex Geveden

President and CEO

Government Operations

Dr. Rob Smith

President, Government Operations

Commercial Operations

John MacQuarrie

President, Nuclear Power Group

BWXT Medical

Martyn Coombs

President, BWXT Medical

Financial Strategy

Robb LeMasters

Senior Vice President and CFO

Closing Remarks

Rex Geveden

President and CEO

~10:30 am

Break

Q&A Session

Q&A Panel



Rex Geveden
President &
Chief Executive Officer



Robb LeMasters
Senior Vice President &
Chief Financial Officer



Dr. Rob Smith
President,
Government Operations



John MacQuarrie
President,
Nuclear Power Group



Martyn Coombs
President,
BWXT Medical



Suzy Sterner
Senior Vice President,
Government Relations &
Communications



Joel Duling
President,
Nuclear Operations Group



Ken Camplin
President,
Nuclear Services Group



Overview and Strategy

Rex Geveden
President and Chief Executive Officer

BWX Technologies, Inc.
is using **nuclear technology**
to solve some of the world's
most important problems.

OUR MISSION:

We provide safe and effective solutions
for global security, clean energy,
environmental remediation, nuclear
medicine and space exploration.

We maintain a commitment to innovation,
operational excellence, safety and the
highest ESG standards.



165-year history of innovation

75-year history of nuclear technology

1856

Stephen Wilcox patented the water tube boiler



1907

Teddy Roosevelt's Great White Fleet powered by B&W boilers

1946

Awarded first U.S. Navy contract for propulsion systems



1953

Designed and fabricated components for world's first nuclear powered submarine



1956

Manufactured components for first commercial nuclear power plant in the U.S.

1962

Designed and furnished commercial nuclear reactor systems for Indian Point

1966

Initiated design and fabrication of nuclear components for Nimitz-class aircraft carriers



1994

Awarded first major DOE site management and operating contract at Idaho National Engineering and Environmental Laboratory

1997

Awarded first prime contract from DOE

2015

Selected for design and manufacturing contracts for HPR1000 nuclear plant

2017

Awarded NASA Nuclear Thermal Propulsion Reactor Design contract

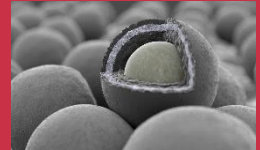


2018

Announced disruptive medical isotope manufacturing technology

2019

Introduced FDA-approved medical isotope In-111 generic for diagnostic imaging to the U.S. market



2020

Restarted TRISO advanced nuclear fuel manufacturing for future DoD and NASA missions

2020

Awarded DoD contract for mobile nuclear reactor design

NON-NUCLEAR

NUCLEAR

1856

1946

1994

BWXT ERA

2015

BWXT



Unique
differentiators



Superior
competitive position



Proven team



Innovating for
the future

BWXT

Compelling investment
opportunity focused
on exciting new
technologies



GOVERNMENT



Nuclear Operations Group

- Naval Nuclear Propulsion
- Fuel manufacturing
- Uranium processing and downblending
- Research and test reactors



Nuclear Services Group

- Nuclear environmental remediation, site management and operations services
- Defense and space reactors
- Advanced reactors and fuel
- Cutting-edge R&D

COMMERCIAL



Nuclear Power Group

- Nuclear component manufacturing
- Fuel and fuel handling
- Commercial nuclear services
- Nuclear medicine



Unique
differentiators in
**specialized
markets** create
favorable business
characteristics

Delivering on commitments, resulting in robust financial performance since spin



>\$1 B

Returned to shareholders through share repurchases and dividends



>50%

Revenue growth



Expanding margins

Expansion of operating and EBITDA margins



>2x

Earnings per share growth

ESG alignment

Top ESG companies
2019, 2020



INVESTOR
BUSINESS
DAILY

MSCI

BWXT

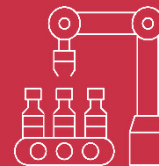
Top industry
recognition

INDUSTRY WEEK

Manufacturing
excellence

#1

2020 Manufacturer
of the Year



Business
growth

FORTUNE
1000

2021



OSHA

- World-class safety record
- Consistent top quartile outperformance

Safety
record



Unparalleled assets and strong market positioning across the portfolio

DECADES
of nuclear operation
experience

WORLD CLASS
nuclear manufacturing
facilities

ONLY
company to possess
NRC Category 1 licenses

SOLE SOURCE
position on mission-
critical programs





GOVERNMENT



Naval Nuclear Propulsion



Nuclear environmental remediation and site management



Space and defense nuclear power and propulsion

COMMERCIAL



Clean energy demand



Nuclear medical manufacturing



Next generation nuclear reactors

Generating shareholder value through two primary responsibilities



Effective cash generation

Disciplined capital allocation



Using a disciplined, three-horizon strategy to build our future



EXECUTE CORE BUSINESS

Through innovation, manufacturing and customer service excellence, we will maintain our unique trusted status with core customers while helping them address their most pressing nuclear-related needs.

EXPAND NUCLEAR ADJACENCIES

Established and emerging markets demand that we leverage and augment existing capabilities through prudent investment in R&D, allocation of resources and formation of significant partnerships, all of which will generate pioneering solutions to address 21st century challenges.

EXPLORE LONG-CYCLE OPPORTUNITIES

Our unique expertise and continuous advancement, along with our unmatched capabilities and economical approach, provide a fiscally disciplined and shareholder-focused posture to scaling investments to ensure exceptional, leading future industry positions.

Building layers of shareholder value

Naval propulsion

Nuclear fuel & uranium processing

Active medical isotope portfolio

DOE & NASA site management

Commercial nuclear component, fuel and services

Microreactor prototype demonstrations & fuel

Tc-99m generators

Therapeutic nuclear medicine manufacturing

Global naval power and propulsion

SMR component design & manufacturing

National security space power and propulsion

Industrial clean energy systems

Cancer-based theranostic manufacturing

Radioisotope power systems

Civil space power systems

Value perspective: **FCF/ROIC**

EXECUTE

Present

Value perspective: **NPV**

EXPAND

Near future
(1-4 Years)

Value perspective: **Option**

EXPLORE

Future
(5+ Years)

Investment thesis

1

High barriers to entry drive stability and confidence in long-term visibility

2

Innovation and unique assets enable new growth verticals

3

Cash generation will feed shareholder-friendly investments or lead to capital return



BWXT[®]





Government Operations

Dr. Rob Smith
President, Government Operations

Key messages

1

Decades of high consequence nuclear operations experience

2

Sole provider of U.S. Navy nuclear propulsion components and fuel

3

Only company to possess Category 1 nuclear credentials

4

Differentiated capabilities in emerging nuclear microreactor market

5

Leadership position maintained through safety, quality and performance track record





Nuclear Operations Group

Government Operations

Nuclear Services Group

Naval nuclear
propulsion



Nuclear fuels &
uranium processing



Culture of
excellence



Experienced
leadership

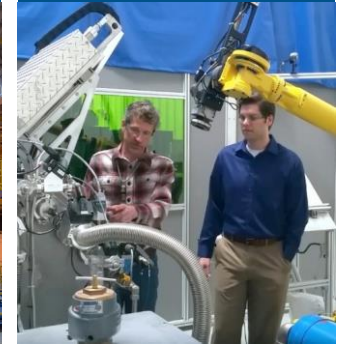


Category 1
licenses

Technical
services



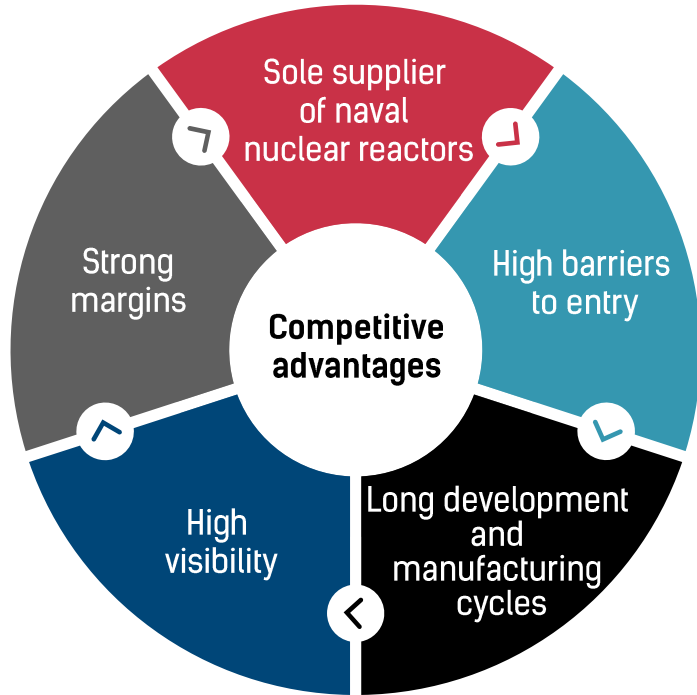
Advanced
technologies



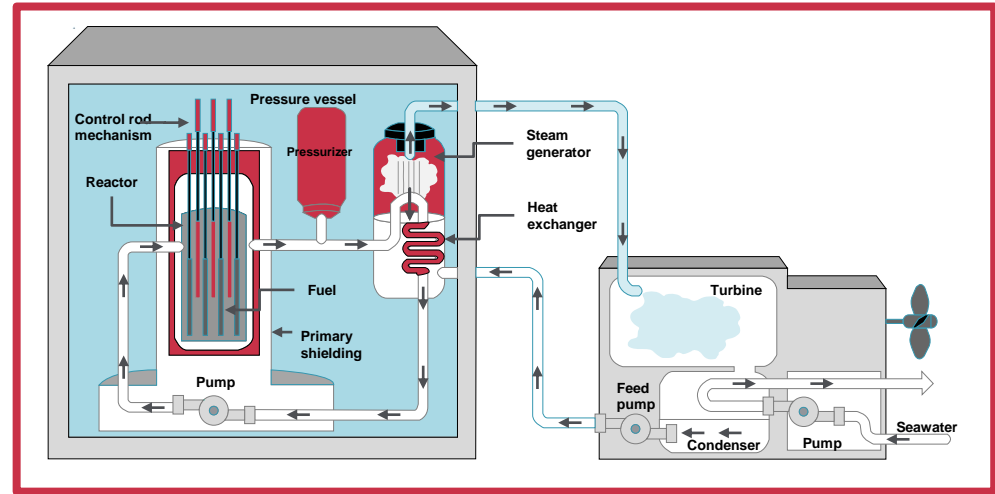
Critical aspects of naval nuclear propulsion



Naval nuclear propulsion



Engine room



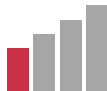


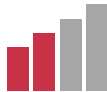


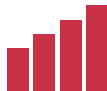


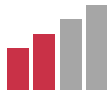


1) Engine room components in red produced by BWXT

U.S. naval nuclear platform status and value



Naval nuclear propulsion

	Status	Build time	Power units	Lifespan	Relative value
Virginia fast-attack submarine 	 66	5-6 Years	1	~33 Years	
Columbia ballistic missile submarine 	 12	6-7 Years	1	~42 Years	
Ford aircraft carrier 	 10	7-8 Years	2	~50 ~25 Years Years Refuel	
Nimitz refuel 	 10	6-7 Years	2	~50 ~25 Years Years Refuel	

Long-term visibility



Naval nuclear propulsion

Government Fiscal Year ⁽¹⁾	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Approximate BWXT Year	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Aircraft Carrier Plan ⁽²⁾																															
CVN (Ford Class)	1								1			1				1				1				1				1			
Submarine Program ⁽²⁾																															
SSN (Virginia / X-Class)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SSBN (Columbia Class)	1			1		1	1	1	1	1	1	1	1	1	1																



Solid, steady long-term growth curve



BWXT receives orders ~2 years in advance of ship procurements



Individual years may be lumpy due to carrier activity

1) Source: Office of the Chief of Naval Operations report to Congress on the Annual Long-Range Plan for Construction of Naval Vessels for Fiscal Year 2022, published June 2021

2) Navy construction plan schedule may not directly align with BWXT estimates

BWXT / Naval reactors contracts overview



Naval nuclear propulsion

2 or 3-year
order pricing agreements

8+ year
contract timeline

Fixed price incentive fee

~15% as-sold fee on cost

Margins increase
as savings are realized over time

Cost underruns shared with customer, boost margins



Multi-year pricing agreement #1
2-year

Multi-year pricing agreement #2
3-year

Multi-year pricing agreement #3
2-year

How we drive margins from as-sold to high teens



Naval nuclear propulsion

Operational efficiencies

- Continuous improvement culture
- Lean six-sigma projects
- New manufacturing technologies



Procurement savings

- Supply chain management
- Opportunistic material procurement
- Firm quote supply management



Cost management

- Labor
- Overhead
- Healthcare



Long-term sustainable growth



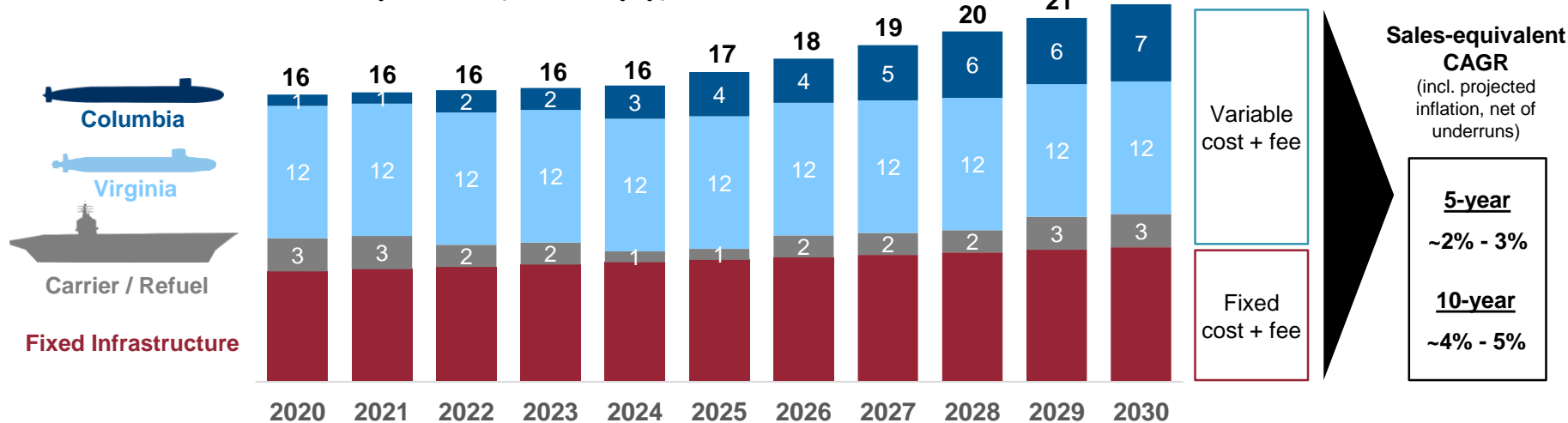
Fixed infrastructure
sales component

Variable sales driven by
power system volume

Inflationary
pricing escalation

Naval nuclear propulsion
Revenue headwind
with underruns

Power systems in process by type





Nuclear fuels



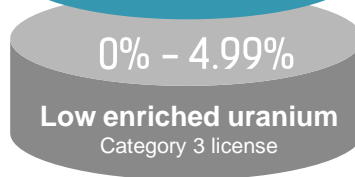
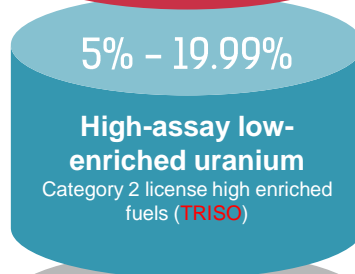
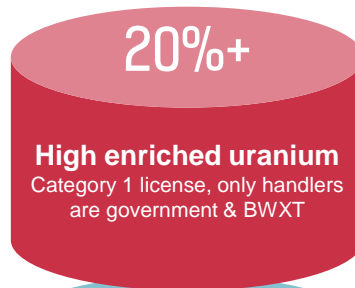
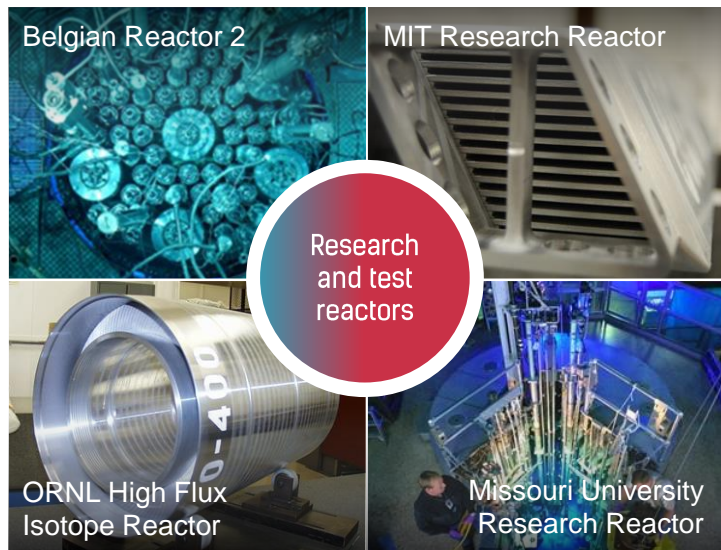
Uranium processing



Leveraging Category 1 licenses for current and future nuclear fuels



Nuclear fuels and uranium processing



Leveraging Category 1 licenses for uranium processing



Downblending highly enriched uranium

6-year, \$555M contract to downblend 21.7 metric tons of HEU to LEU



Process different types of HEU to get LEU, used for commercial reactor fuels and historical government non-proliferation activities

Outlook

Stable, current contract runs through mid-2025

20%+

High enriched uranium
Category 1 license, only handlers are government & BWXT

5% – 19.99%

High-assay low-enriched uranium
Category 2 license high enriched fuels (TRISO)

0% – 4.99%

Low enriched uranium
Category 3 license

Nuclear fuels and uranium processing

Uranium conversion and purification

30-month, \$58M contract to provide final design and pilot process

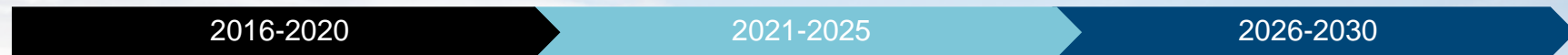


Conversion to oxide for purified HEU metal in government stockpiles

Outlook

Growth, NNSA to utilize BWXT to bridge capability
\$58M contract to establish capability
Follow-on production contract anticipated

Epochs of Nuclear Operations Group



Tailwinds

- Maintain Virginia tempo (2 per year)
- FAS/CAS pension benefit
- Ford production acceleration
- Columbia development and initial awards

- Columbia orders increasing
- U-Metal development and production
- Coated nuclear fuels
- AUKUS agreement ?

- Columbia serial production tempo
- SSN(X) development
- Increasing Ford carrier order cadence
- Ford refuel begin
- Potential AUKUS workscope ?

Headwinds

- Missile tube roll-off
- Ford aircraft carrier gap years
- Nimitz refuel ending
- FAS/CAS pension roll-off

- Completion of downblending contract



Business characteristics

- High ROIC
- High visibility
- Low financial risk
- Working capital investment up front

30 years
technical
experience in the
nuclear services
industry

Resulted from asking:

We are helping the DoD with nuclear applications, where else could we be helpful?



Government owned, contractor operated sites run by joint venture entities

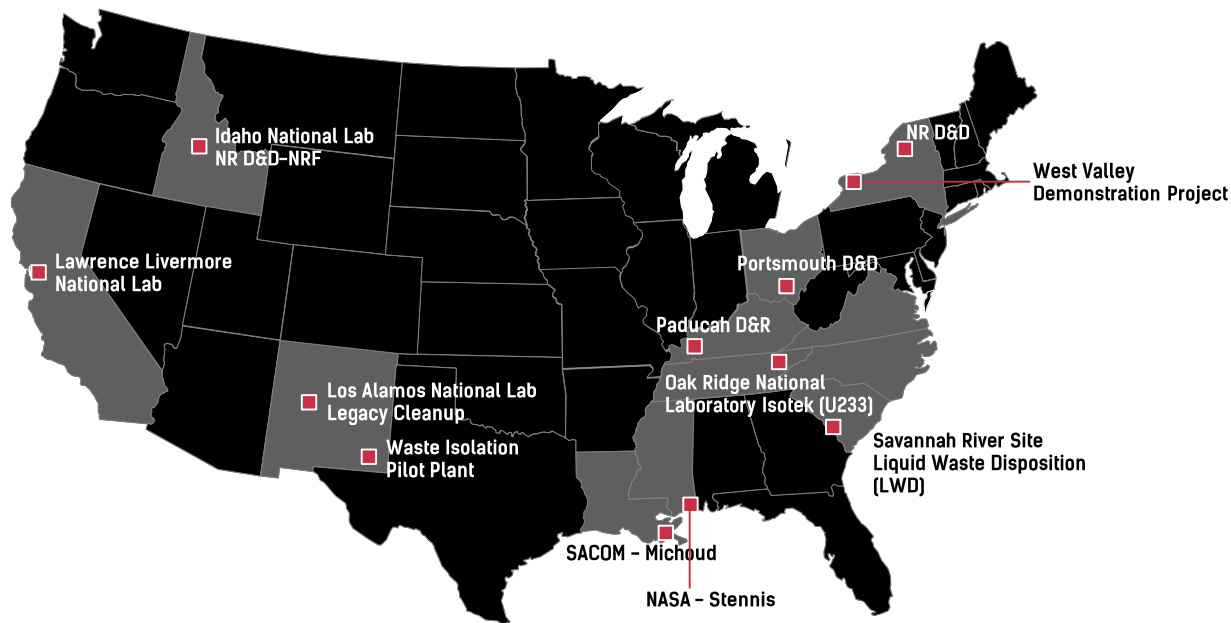
Generally favorable financial and legal contract structure with long duration

Technical Services market



Technical services

Relative size and scale



11 of 33
DOE sites



~2500
employees



~\$800M
unconsolidated
revenue

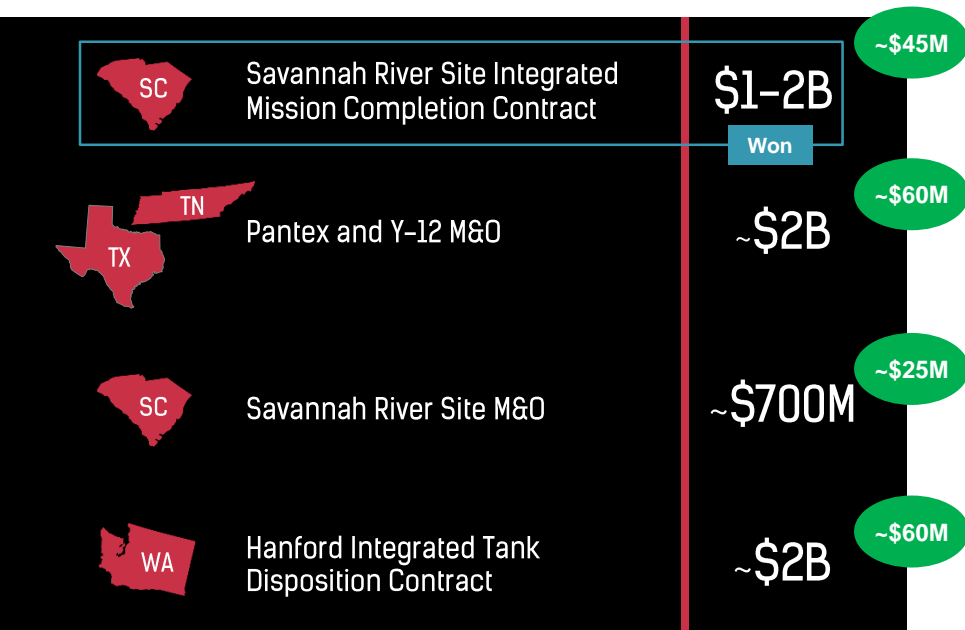
Expectations for Technical Services



Technical services

Upcoming opportunities

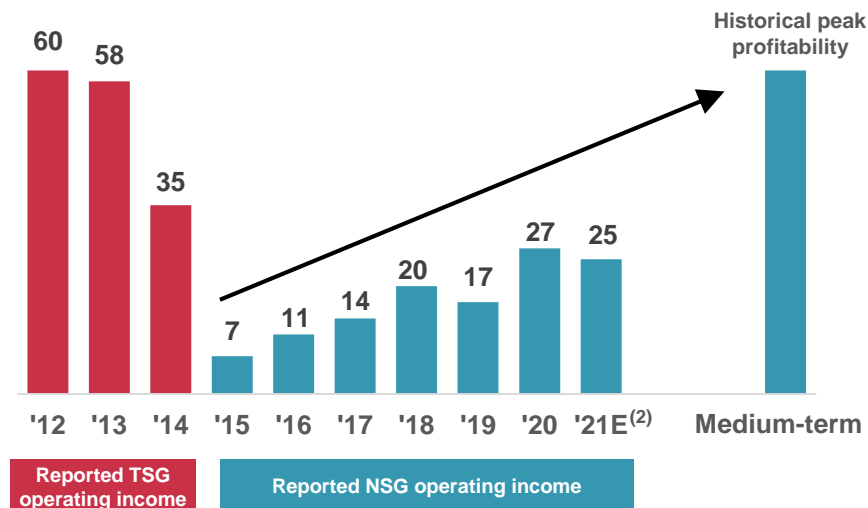
(estimated annual budgets)



= Joint venture operating income opportunity for which BWXT would get a relative share

Historical BWXT services income⁽¹⁾







(\$ million)



1) See Appendix for reconciliation of GAAP to adjusted, non-GAAP items

2) Figures based on 2021 guidance narrowed on November 1, 2021 and issued on November 16, 2021. For more information refer to the quarterly earnings and related material found on the BWXT investor relations website

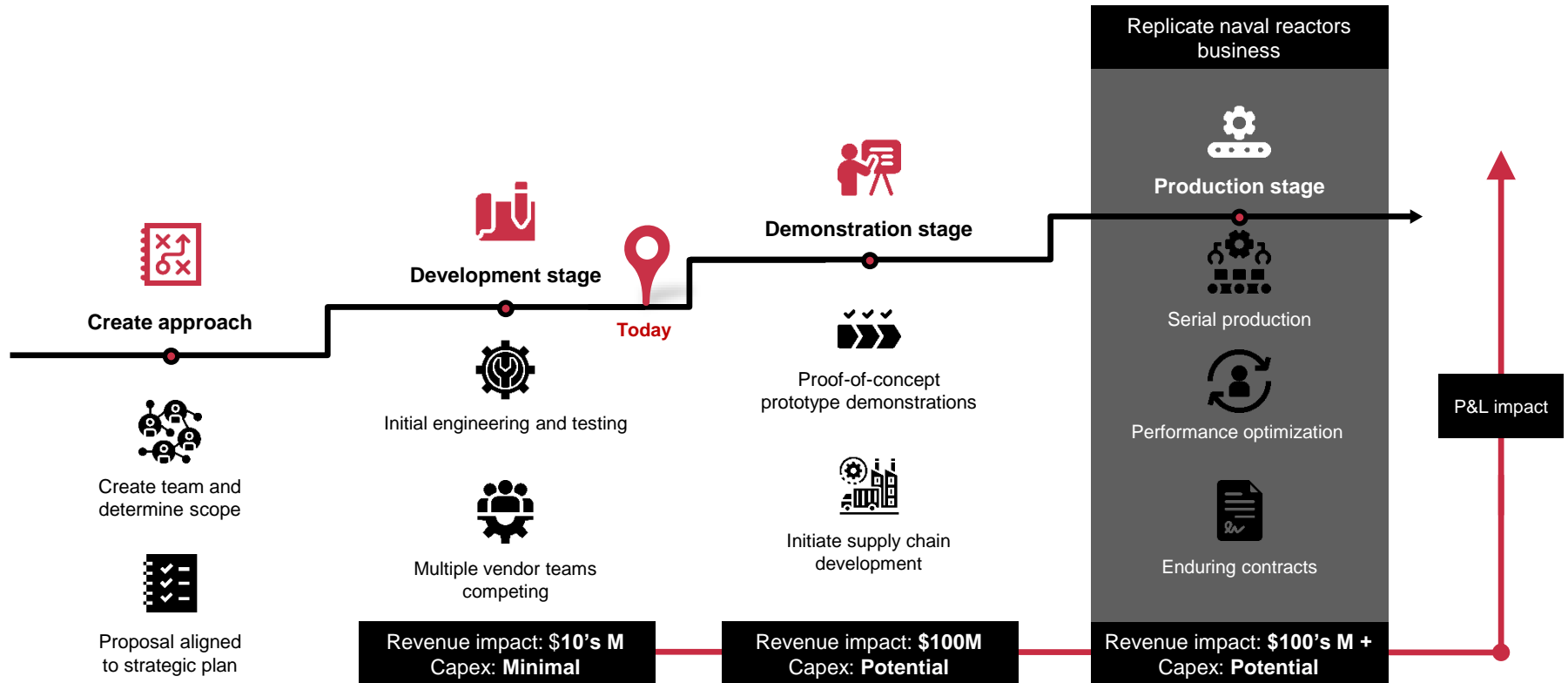
What are advanced reactors?

							
		Size	Mobility	Output	Technology	Fuel Type	Use Case
Advanced Reactors	Conventional	Large	None	300 to 1000 MW	Pressurized or boiling water	LEU	Reliable baseload electricity
	SMRs	Medium	None	20 to 300 MW	Various	LEU / HALEU	Scalable power solution & industrial heat
	Microreactors	Small	Mobile and / or modular	1 to 20 MW	Various	HALEU	National security power & propulsion, industrial heat

Expected evolution of BWXT-led microreactor projects



Advanced Technologies



BWXT positioning for wins across advanced nuclear programs



Potential # of units

Likelihood of production



Development

Demonstration

Production

Government Operations EBITDA growth



				Government Operations	
				2.5% – 4%	1% – 2.5%
				Naval propulsion, fuels and uranium processing	Technical Services
				~0.5%	Advanced Technologies
Base					
Potential					

4% – 7%
EBITDA
growth

Key takeaways

- 1 Decades of high consequence nuclear operations experience
- 2 Sole provider of U.S. Navy nuclear propulsion components and fuel
- 3 Only company to possess Category 1 nuclear credentials
- 4 Differentiated capabilities in emerging nuclear microreactor market
- 5 Leadership position maintained through safety, quality and performance track record





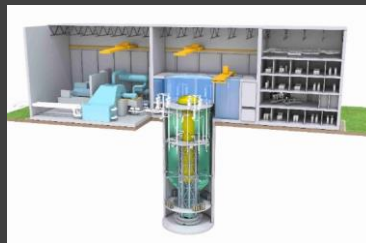
Commercial Operations

John MacQuarrie
President, Nuclear Power Group

Introduction to Commercial Operations

~\$400M⁽¹⁾ Total revenues
Nuclear Power Group

Commercial Nuclear Power



~\$350M⁽¹⁾

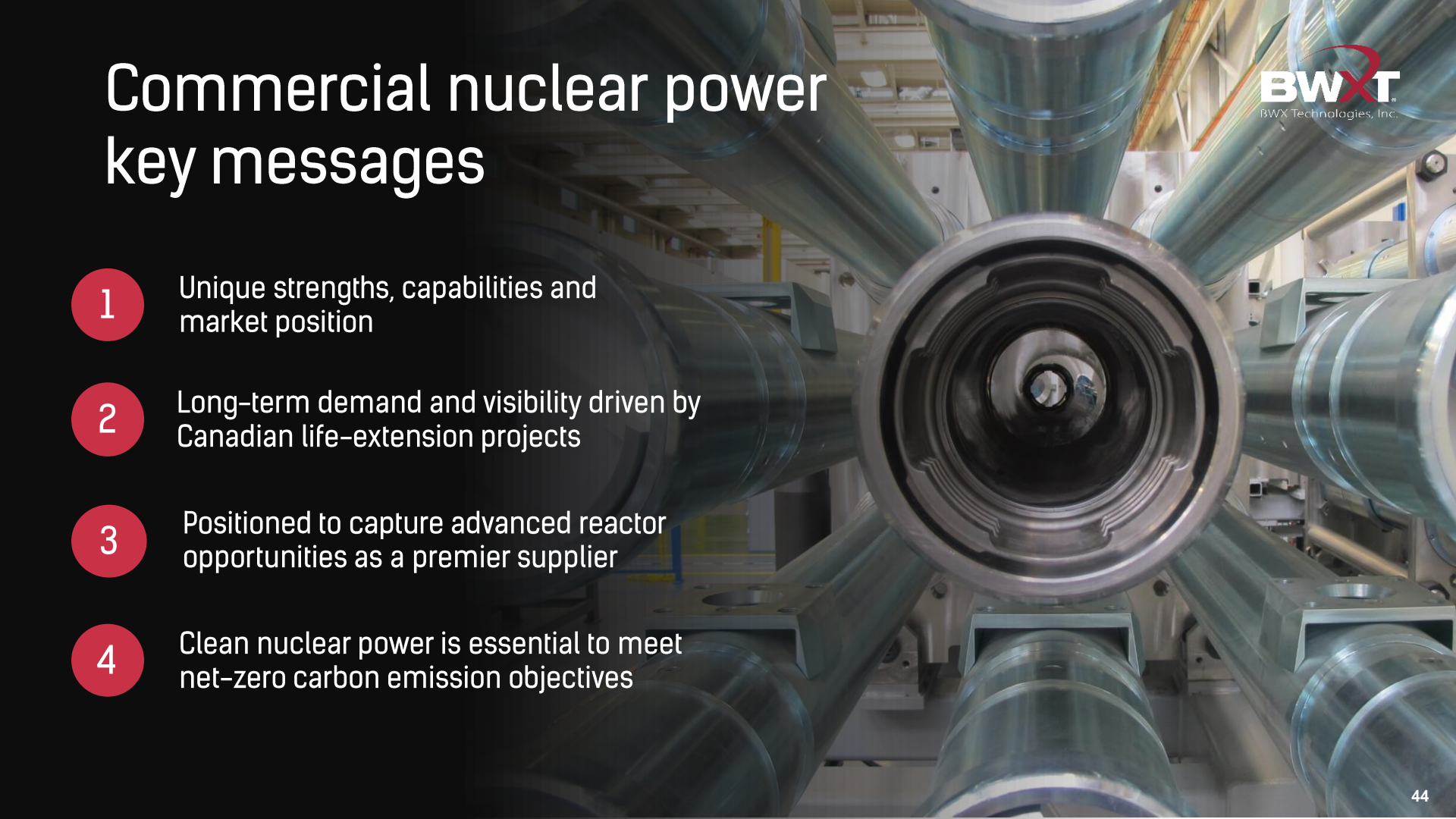
~\$50M⁽¹⁾

BWXT
Medical



1) Figures based on 2021 guidance narrowed on November 1, 2021 and reiterated on November 16, 2021. For more information refer to the quarterly earnings and related material found on the BWXT investor relations website

Commercial nuclear power key messages

- 
- 1 Unique strengths, capabilities and market position
 - 2 Long-term demand and visibility driven by Canadian life-extension projects
 - 3 Positioned to capture advanced reactor opportunities as a premier supplier
 - 4 Clean nuclear power is essential to meet net-zero carbon emission objectives

BWXT strengths and capabilities

1

Strong customer relationships

2

#1 supplier and sole manufacturer of large components in North America

3

Developer of CANDU **on-power refueling technology**

4

Specialized field services capabilities

5

1 of 2 fuel manufacturers in the Canadian market

60 years of Canadian nuclear power experience

Commercial nuclear power strategy



Be the leading supplier of choice for the CANDU⁽¹⁾ market

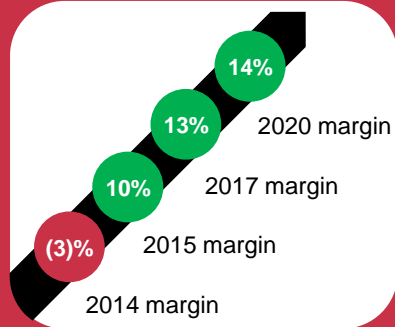
ONTARIOPOWER
GENERATION

Bruce Power[™]

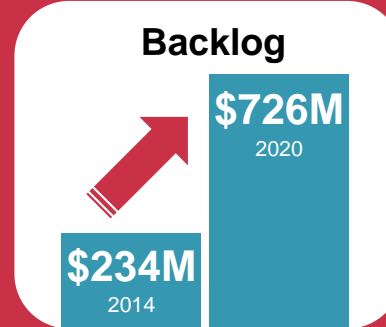
Innovation at work



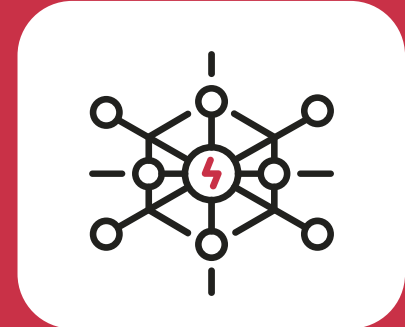
Continuous improvement to maintain low double-digit operating margin



Expand product offerings and differentiate to win new work



Position to be a key supplier for future advanced reactor manufacturing



1) CANDU: Canada Deuterium Uranium

Canadian commercial nuclear power market uses CANDU⁽¹⁾ technology



~40%
of Canadians live
in Ontario province



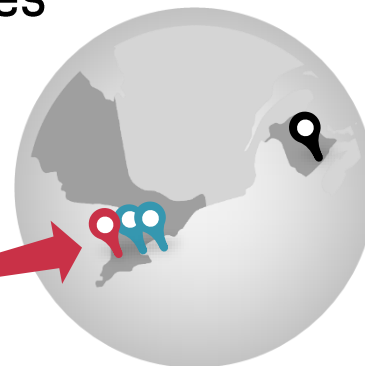
~60%
of Ontario electricity
generated by nuclear power



19 Canadian
reactors **8** International
reactors



\$1.8B
annual market (CAD)



Bruce A & B Bruce Power

8
operating
reactors

Life extension:
Units 3-8
(2016 – 2033)

Darlington Ontario Power Generation

4
operating
reactors

Life extension:
Units 1-4
(2016 – 2026)

Pickering A & B Ontario Power Generation

6
operating
reactors

Maintenance:
Until end of life
(2025)

Point Lepreau NB Power

1
operating
reactor

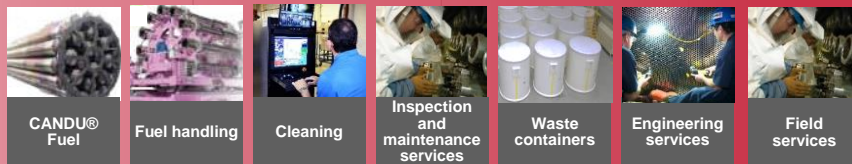
Life extension:
2012

1) CANDU: Canada Deuterium Uranium

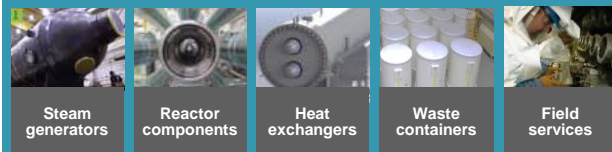
Significant lifetime for CANDU products



Recurring



Life extension



- Long-term visibility
 - 40+ year recurring market
 - 10+ year refurbishment market
- High barriers to entry requiring qualified CANDU nuclear components
- Full suite offering across both market segments

2010

2020

2030

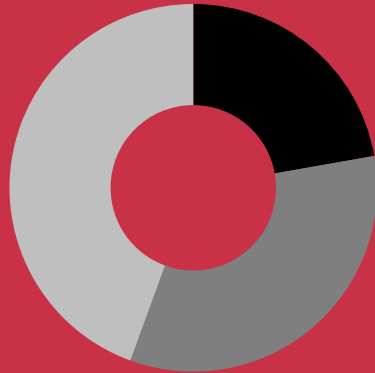
2040

2050

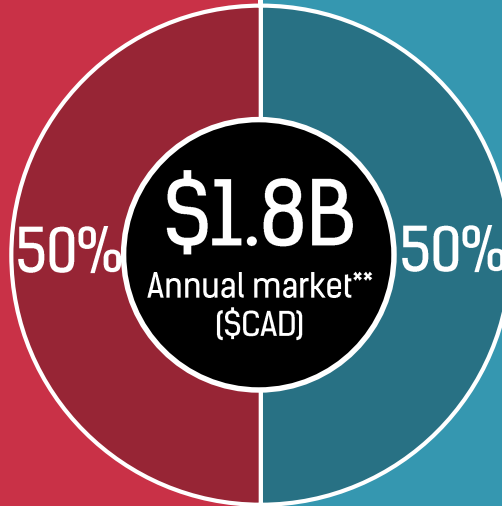
How BWXT serves the CANDU fleet



Recurring



- Components/Engineering
- Fuel & Fuel Handling
- Outage & Field Services

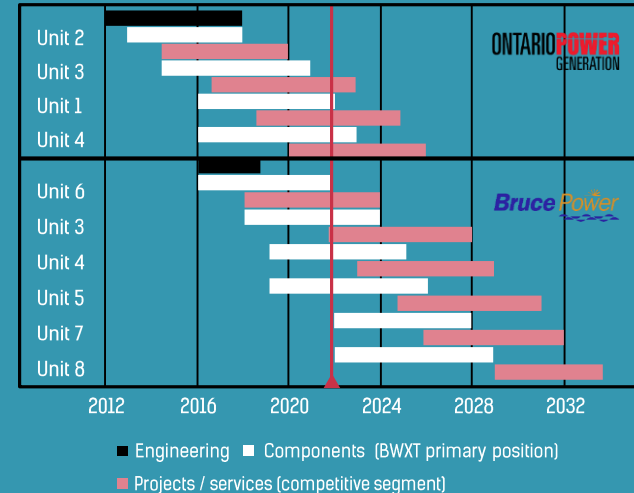


Life extension



10 reactors being refurbished

Non-recurring life extension market**



**Source: Based on BWXT estimates

Increased investment for advanced reactor nuclear power



Government

U.S. President's budget request

Office of Energy and
Renewable Energy up

65% to \$4.7B

Office of Nuclear
Energy up

22%

DOE Advanced Reactor
Demonstration Program up

50%

Canada

10+

Advanced reactors
in licensing process

\$100M

In advanced
nuclear reactor
R&D funding

ONTARIOPOWER
GENERATION

OPG targeting a grid-
connected SMR by 2028

Private industry



Bill Gates founded / funded Sodium reactor

Warren Buffet's PacifiCorp - initial site and purchaser
of advanced reactor at retiring coal plant in Wyoming



energy

Agreement with Cameco on
SMR fuel; Developing Xe-100

BWRX-300; signs agreements for
potential new builds in various countries



HITACHI



NUSCALE



USNC
ULTRA-SAFE-NUCLEAR

TERRESTRIAL
ENERGY



BWXT positioned to capture manufacturing opportunities in next-generation commercial nuclear power build-out

Clean Energy

- Nuclear – a reliable, carbon-free energy source
- Supports the global government objectives for carbon reduction, net-zero emissions
- Canadian government plans
 - Phase out coal-fired plants by 2030
 - Achieve net-zero nationally by 2050
 - Committed to Paris Agreement
 - First SMR connected to electricity grid by 2028

Commercial nuclear power key takeaways

1

Unique strengths, capabilities and market position

2

Long-term demand and visibility driven by Canadian life-extension projects

3

Positioned to capture advanced reactor opportunities as a premier supplier

4

Clean nuclear power is essential to meet net-zero carbon emission objectives

Why enter nuclear medicine manufacturing?



**Heritage of complex
radiochemistry expertise**



**Disruptive technology and
irradiation partnerships**



**High growth, attractive
market dynamics**



BWXT Medical

Martyn Coombs
President, BWXT Medical

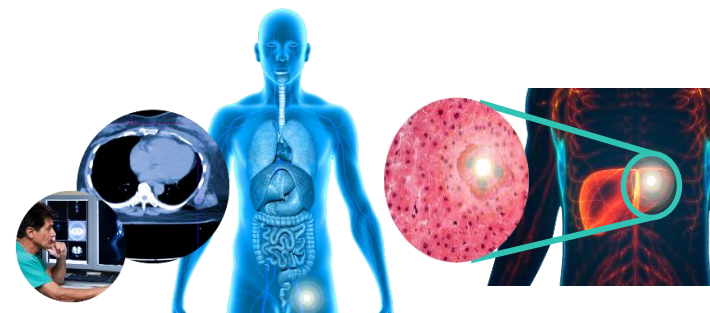
Observations in the nuclear medicine industry

Industry challenges / dynamics		BWXT Medical's unique solution		Future BWXT objective	
Fragmented and unreliable infrastructure		Coordinated and experienced leadership team		World-class facilities and capabilities	
1	Vulnerability in the nuclear medical isotope supply chain – very fragile		Dependable robust supply chain		Become a leading manufacturing company in nuclear medicine
	<ul style="list-style-type: none">- Commercial power reactors- New technology				
2	Recent emerging therapeutics driving sector interest – traditional suppliers focused on diagnostics and undependable supply agreements		Infrastructure and scale provides ability to source isotopes and build sophisticated finished products to meet emerging therapeutic demand		The go-to nuclear partner for pharma desiring end-to-end therapeutic isotope partner

Nuclear medicine is used to diagnose, target and treat diseases.

Nuclear medicine is a medical specialty that uses radiopharmaceuticals to specifically image and to selectively treat disease – a form of personalized medicine.

Radiopharmaceutical is a specialized drug containing a radioactive isotope.



Diagnostic

Therapeutic

Isotope radiation

γ

Gamma

$\alpha \beta$

Alpha / Beta

Penetration depth



High



Low

Use case

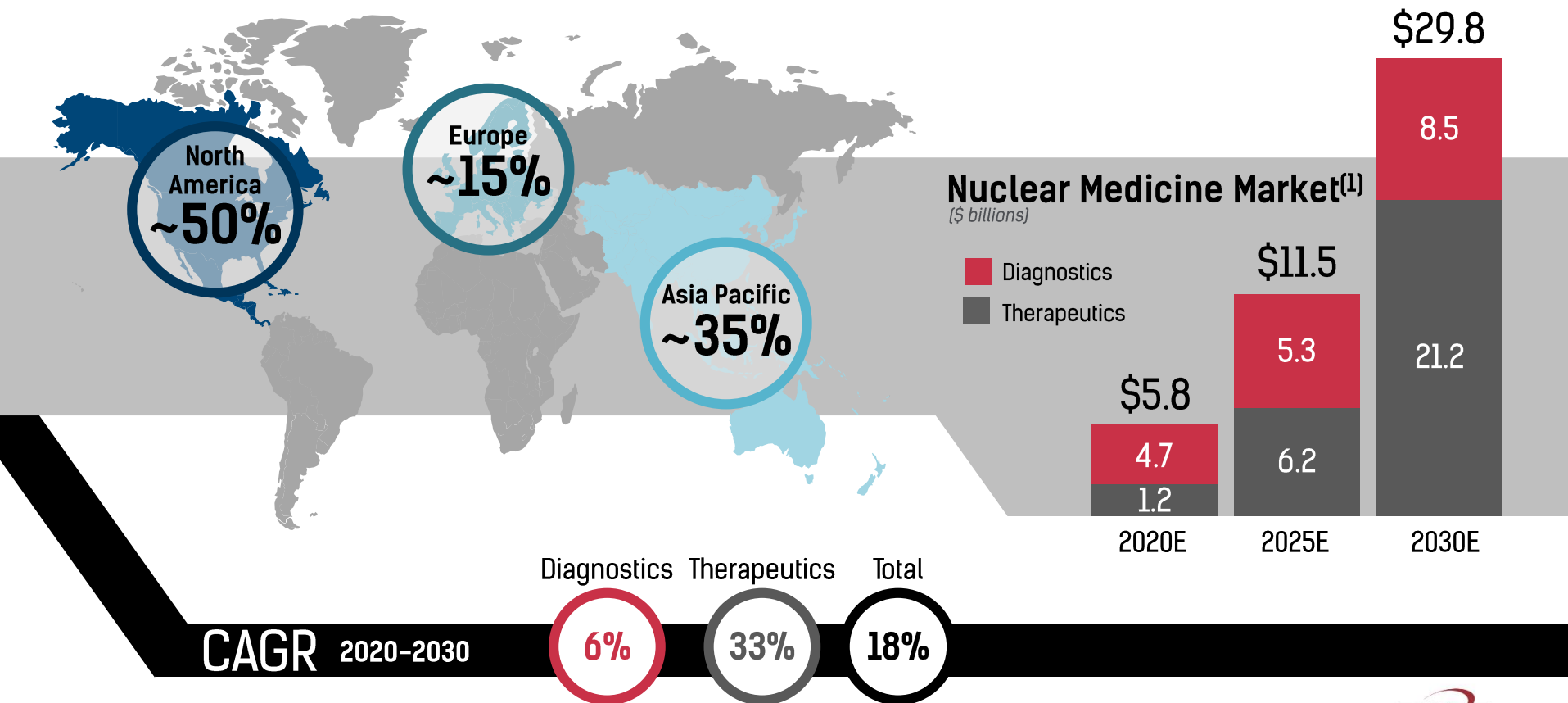


Imaging



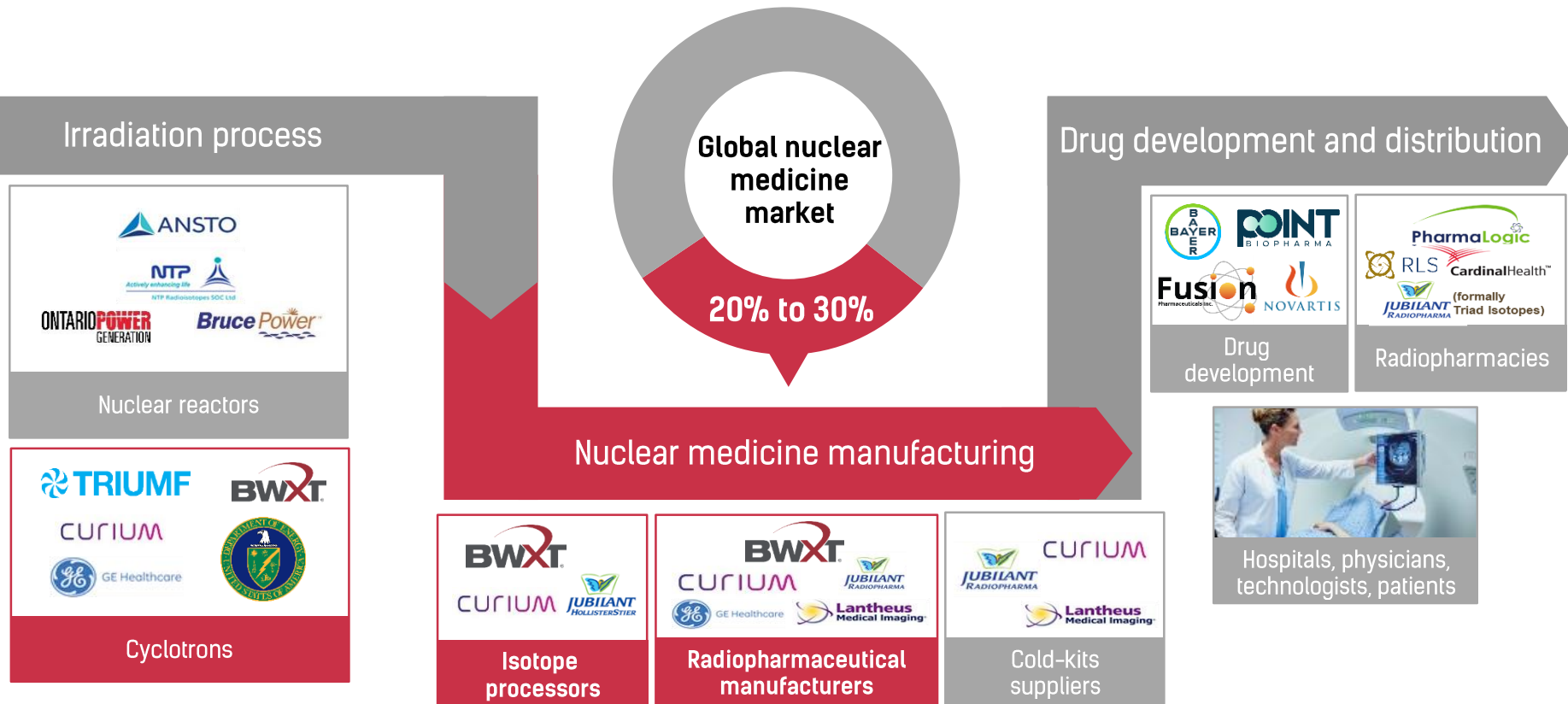
Treatment

Nuclear medicine: a growing global market driven by therapeutics



1) ©MEDDraysintell Nuclear Medicine Report & Directory Edition 2020, www.medraysintell.com

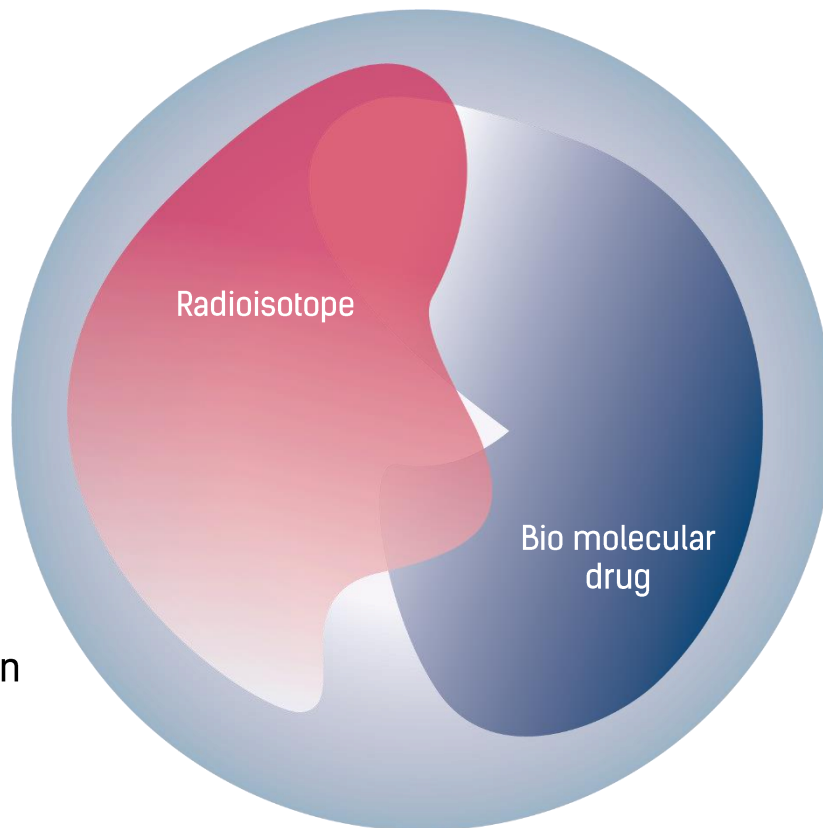
Uniquely positioned between pharma and traditional nuclear medicine



Hospitals, physicians, technologists, patients



- Target isotope sourcing
- Target irradiation
- GMP processing / purification
- FDA / Nuclear approved
- Contract development manufacturing organization (CDMO) capability



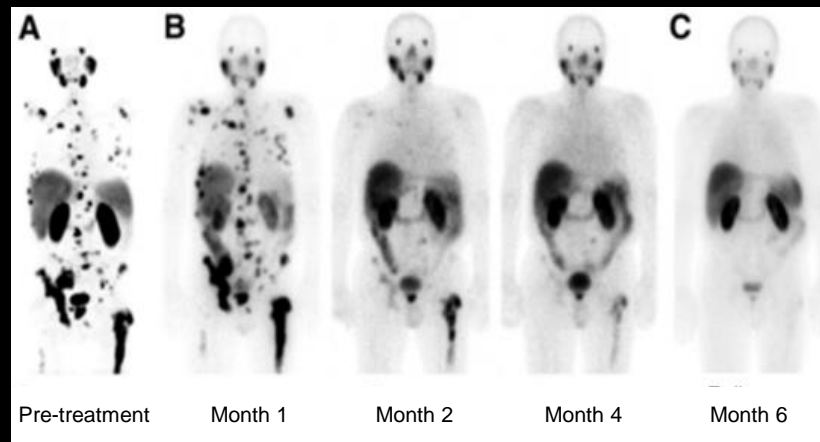
Large Pharma

- Drug development
- Clinical trials
- FDA approval (drug)
- Sales and marketing channel



Novartis announces positive result of phase III study in patients with advanced prostate cancer

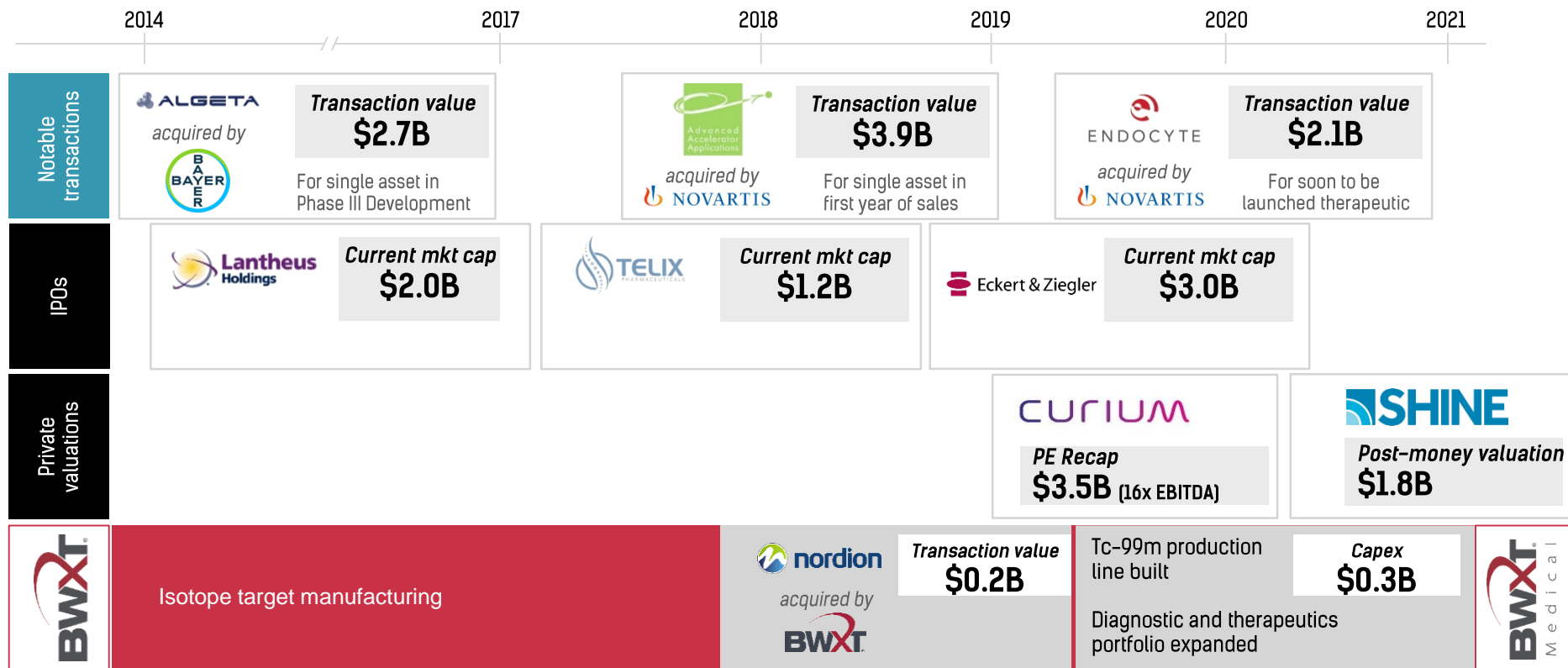
"Novartis today reported the first interpretable results of the Phase III VISION study evaluating the efficacy and safety of ^{177}Lu -PSMA-617, a targeted radioligand therapy in patients with progressive PSMA-positive metastatic castration-resistant prostate cancer (mCRPC) compared to best standard of care alone."
[3/31/21]



Attracting significant capital and valuations



Increasing strategic and investor interest in the nuclear medicine space



Nordion platform and BWXT technology position for right to win



Ottawa

headquarters / manufacturing

Vancouver

manufacturing



~300

qualified personnel

284K sq. ft.

production space

Acquired Business (Nordion)



Full suite of offerings

Acquired

¹²³I
Iodine

⁸²Sr
Strontium

⁹⁰Y
TheraSphere™

¹¹¹In
Indium

Developed

⁹⁹Mo / ^{99m}Tc
Molybdenum / Technetium

¹¹¹In
Indium Oxyquinoline

⁶⁸Ge
Germanium

Capabilities

Qualified shipping
containers

Licenses

Capacity



Building sophisticated products



Disruptive technologies



Complex nuclear
radiochemistry expertise



Vertically integrated
manufacturing

Government & Regulatory relationships



U.S.NRC
U.S. Nuclear Regulatory
Commission



Canadian Nuclear
Safety Commission

Building a strong team of nuclear medicine experts



Martyn Coombs

President,
BWXT Medical



- Joined July 2020
- 25 years experience
- Former President, Jubilant DraxImage
- Vice President, Nihon Medi-Physics
- Ran consultancy (Predict) Nuclear Medicine

Bill Riddoch, Ph.D.

Head, R&D & Technology



- Joined September 2020
- 20 years experience in the development and commercialization of radiopharmaceuticals
- Former Senior Director, R&D, Jubilant DraxImage
- Ph.D. Chemistry (Specialty in Radiochemistry)

Tamara Mills

Head, Regulatory Affairs



- Joined August 2020
- 15 years of extensive global experience in commercialization of innovative medical technologies, nuclear medicine
- Formerly with Jubilant DraxImage, Global Medical Solutions, Predict

Rich Caligaris

Head, Commercial Ops &
Business Development



- Joined March 2021
- 25+ years in medical technologies
- Consulted to Lantheus Medical Imaging
- Formerly with Merck, Johnson & Johnson, Roche and Med-tech start-ups

Mike Flagg

Head, Strategic Supply

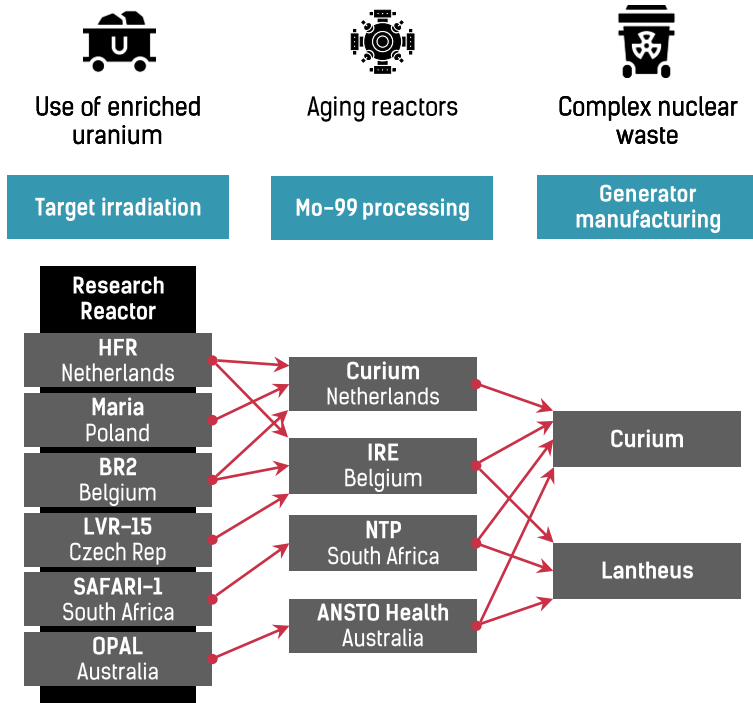


- Joined January 2021
- 15 years in medical radioisotope sector
- 11 years as Associate Director, Missouri University Research Reactor (MURR)

Current industry dynamics: Fragile supply chain



Current supply chain dynamics



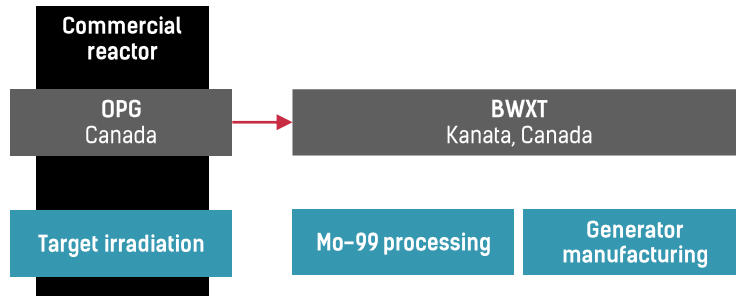
Traditional Mo-99 / Tc-99m process



BWXT's robust supply chain solution under development

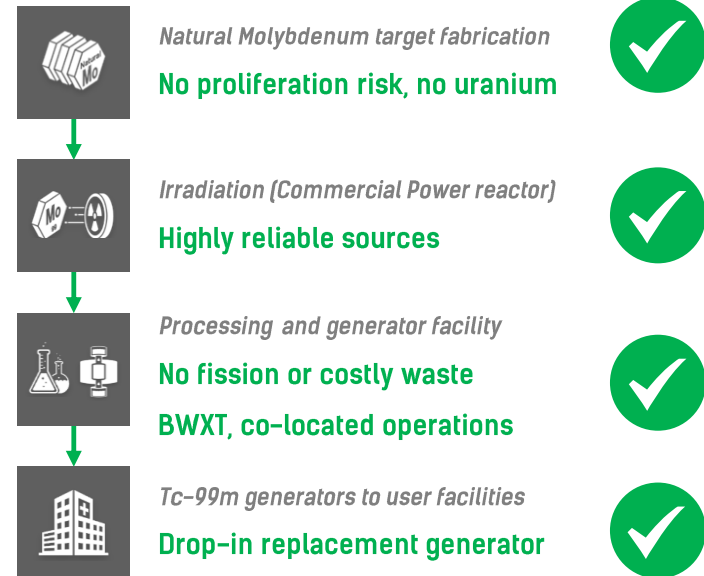


BWXT supply chain dynamics



BWXT's Tc-99m technology will eliminate supply chain complexity, bringing capacity, stability and reliability

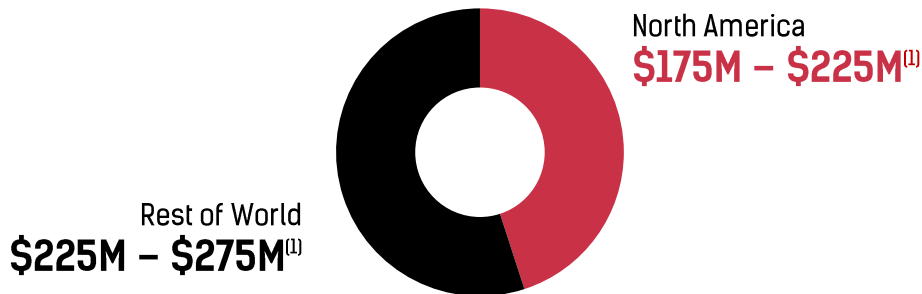
BWXT Mo-99 / Tc-99m process



Opportunity and progress of BWXT's Tc-99m generator project



\$400M – \$500M⁽¹⁾ annual global Mo-99 / Tc-99m generator segment



First

Next

North America



Supplier to leading
nuclear medicine
company

Asia



BWXT / GMS joint venture



Europe



TBA

1) BWXT estimate

Major milestones

- ✓ FDA, BWXT Type C meeting
 - ✓ Design reactor access equipment
 - ✓ Design manufacturing and processing equipment
 - ✓ Manufacture reactor access equipment
 - ✓ Install final manufacturing equipment
 - ✓ Modify medical radioisotope facility
 - ✓ Run equipment validations
 - Submit application to FDA
 - FDA approval for BWXT Tc-99m generator
-
- ✓ Install reactor access equipment

✓ = in progress ✓ = completed



Build upon existing products

Long-term, mutually exclusive agreement to manufacture TheraSphere

**Boston
Scientific**

- Current therapeutic product developed for the treatment of liver cancer
- Growing global demand driven by 2021 FDA approval – expanding patient access
- Investing to automate production process to significantly increase capacity to meet demand



Create to capture – leverage partners

Collaboration with Bayer AG for Actinium-225 supply and to partner on future finished products

- Used in targeted alpha therapies for various tumors
- BWXT intends to leverage isotope and CDMO capabilities to manufacture finished drugs



Development of Lutetium-177 supply

- Used in targeted beta therapies for various tumors
- BWXT intends to leverage relationships with strategic partners for irradiation services

ABC Strategy builds on platform to expand nuclear medicine portfolio



Achieve Tc-99m generator commercialization

- Obtain regulatory approvals
- Operationalize and commercialize
- Expand globally



Build upon existing products

- Expand TheraSphere contract manufacturing
- Grow market share + exploit pricing opportunities
- Add generic drugs to isotope portfolio

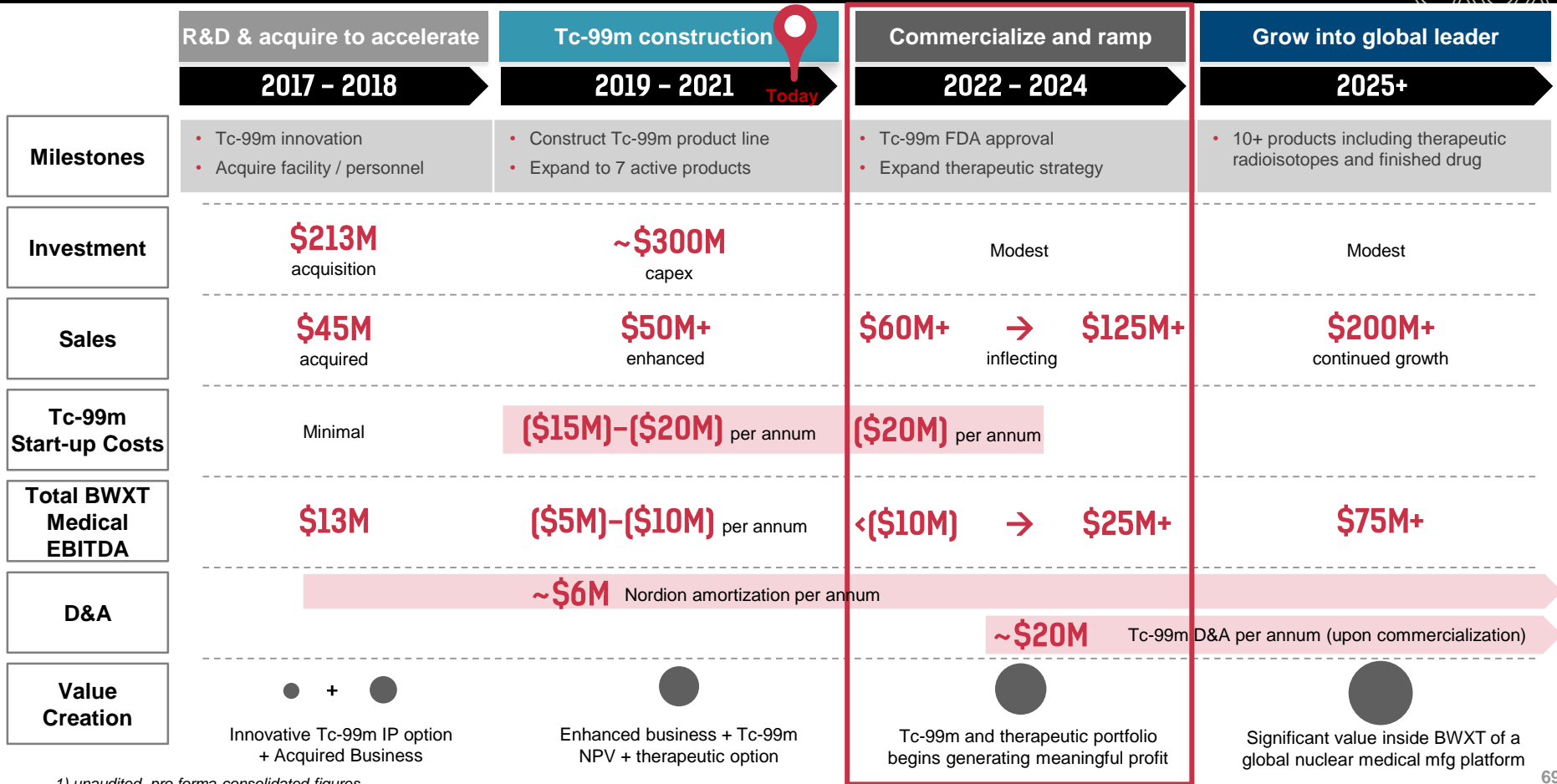


Create to capture radiotherapeutics

- Manufacture finished drug products
- Invest cap-ex with contracts
- Leverage partners to minimize risk
- Do NOT pursue drug discovery



Expectations for BWXT's nuclear medicine manufacturing business⁽¹⁾



1) unaudited, pro forma consolidated figures

Key takeaways

- 1 Strong market growth driven by nuclear therapeutics
- 2 BWXT Medical technology directly addresses current challenges and future needs
- 3 Built a strong team of Nuclear Medicine experts
- 4 Driving to become a leading nuclear medicine manufacturing company
- 5 At inflection point and positioned to generate significant shareholder value



Financial Strategy

Robb LeMasters
Senior Vice President and
Chief Financial Officer

Key messages

1

Solid growth in core business with near-term opportunities in nuclear adjacencies

2

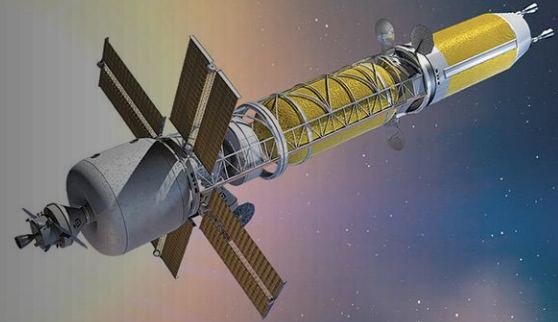
Near-term conclusion of capital campaigns expected to drive strong free-cash-flow inflection

3

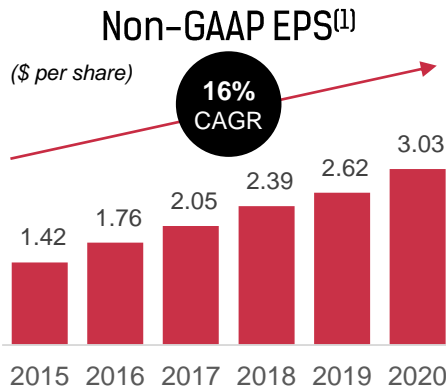
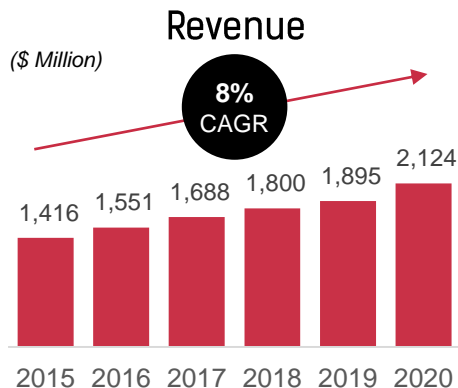
Consistent view on achieving long-term financial results

4

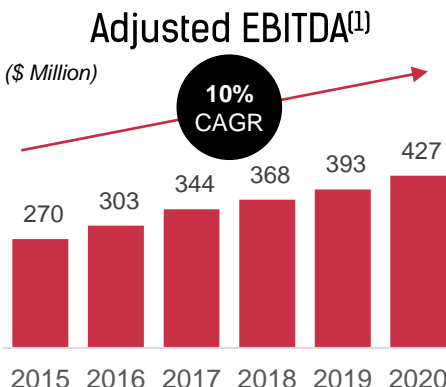
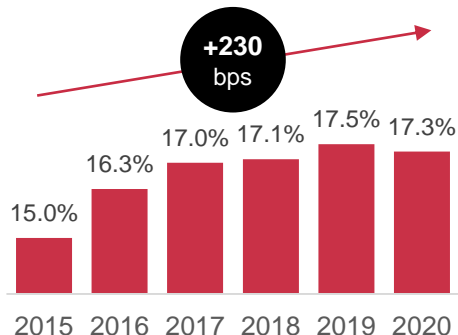
Disciplined use of cash to accelerate growth, balanced with shareholder-friendly capital return



Strong track record of operational execution



Non-GAAP Operating Margin⁽¹⁾



Highlights

- ✓ Robust, high-single-digit revenue growth
- ✓ Double digit EPS growth primarily organic driven
- ✓ Expanding margins despite incremental investments
- ✓ Strong EBIT/EBITDA growth; EBITDA anticipated to outpace EBIT as future depreciation increases from capital campaigns

1) See Appendix for reconciliation of GAAP to adjusted, non-GAAP items

Medium-term financial targets



Mid-to-high-single digit adj. EBITDA⁽¹⁾ growth

- Sustained revenue growth; all segments
- Margin expansion outside of Navy business



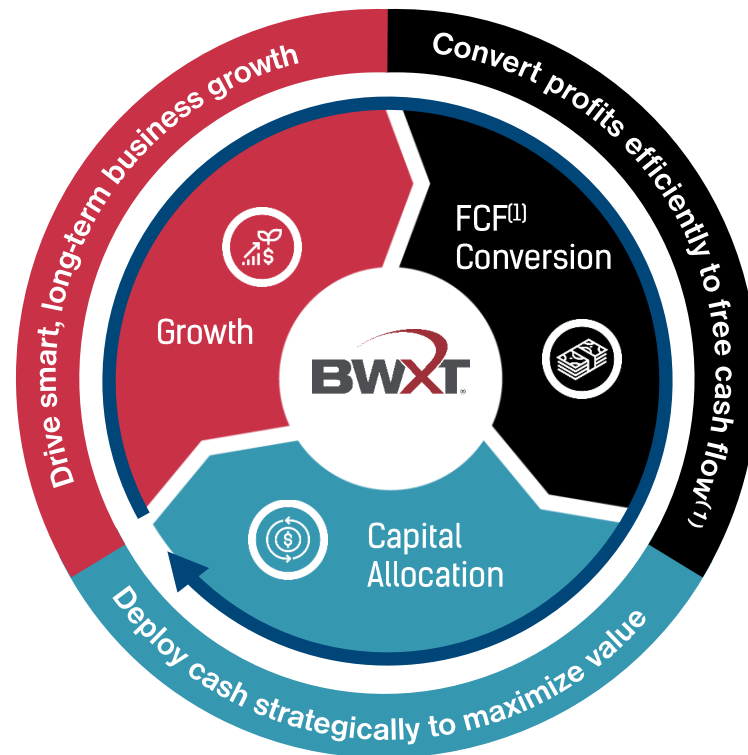
>85% FCF⁽¹⁾ conversion

- Modest improvements in working capital as % sales
- Maintenance cap-ex run-rate exiting 2022



>50% FCF⁽¹⁾ return to shareholders

- **Dividend:** In line with historical ratio to earnings;
- **Share repurchases:** remaining balance of >50% FCF⁽¹⁾ allocation target, pending market conditions
- Other cash / debt could be invested in organic / inorganic growth opportunities with attractive returns



1) Non-GAAP figures exclude any mark-to-market adjustment for pension and postretirement benefits recognized and other one-time items. A reconciliation and definitions of GAAP to adjusted, non-GAAP items can be found in the appendix of this presentation or on the investor relations website at www.bwxt.com/investors.

Multiple levers to drive mid-to-high single digit adj. EBITDA⁽¹⁾ growth



Underlying
market
growth

2.5 to
4.0%

Incremental
growth
vectors

2.0 to
4.0%

Operational
efficiency
initiatives

~0.5%

Mid-to-high
single digit
growth

  Columbia growth

  Aircraft carrier
gap years

  FAS/CAS pension
roll-off

  High fixed
infrastructure
dynamic

  Clean energy
growth

  Nuclear medicine
base growth

  New nuclear
medicine products



  Nuclear medicine
start-up costs

  Increased DOE
services wins

  Defense and Space
reactor prototypes

  New nuclear
fuels

  Digital
transformation

  BWXT business
system

  Software
transition costs

Executing
and streamlining
while investing
and expanding into
nuclear adjacencies
provides an
attractive growth
profile

¹⁾ See Appendix for definition of GAAP to adjusted, non-GAAP items

Maintain flexible capital structure and continue to generate strong cash flow



Cash and debt levels⁽¹⁾

\$69M

Cash balance

\$1.3B

Total debt

\$750M

Revolver (\$465M drawn)

▪ Maturing in 2025

\$252M

Borrowing capacity

No senior note maturities until 2028, 2029

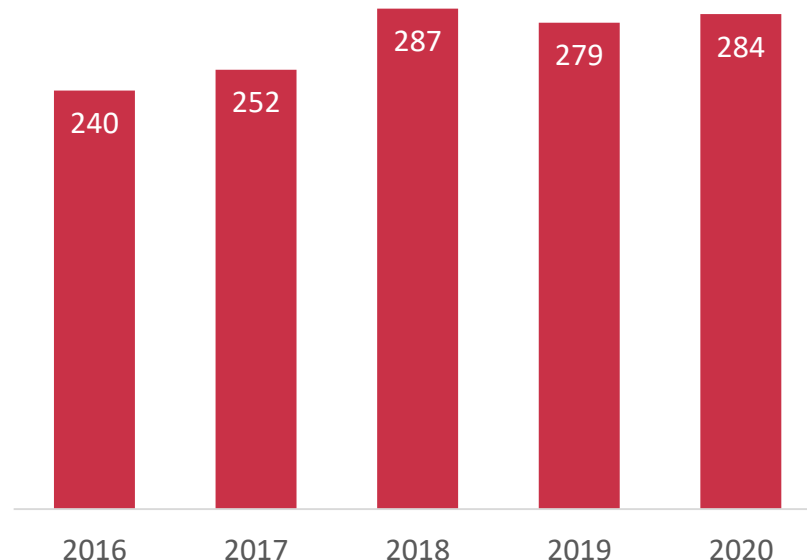
Stable credit ratings

MOODY'S
Ba2

S&P Global
BB

Historical adjusted operating cash flow⁽²⁾

(\$ millions)



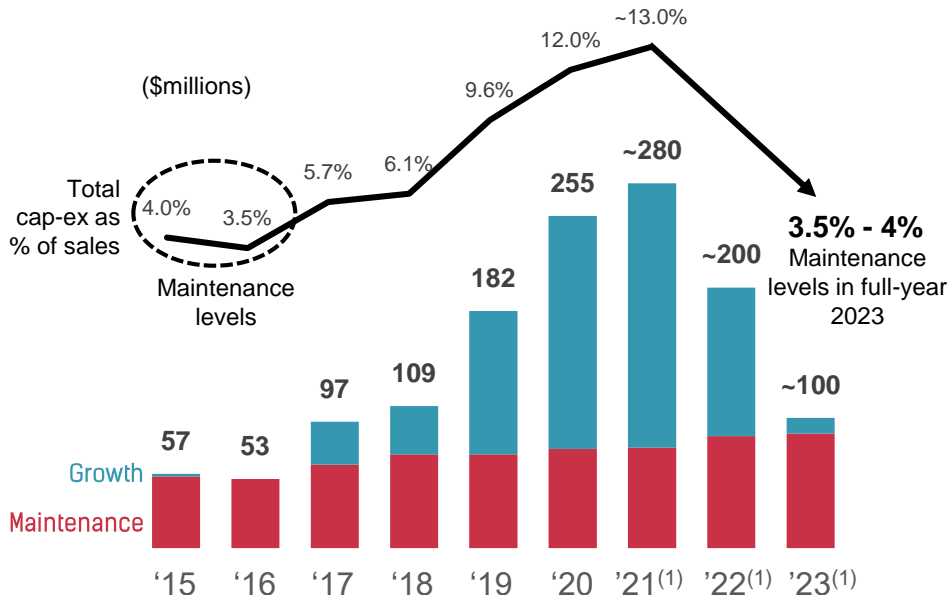
1) Figures as of September 30, 2021

2) Adjusted operating cash flow = operating cash flow less net cash used for discretionary pension contributions, excluding any related tax impacts and other one-time items. 2017 adjustments include a \$30 million discretionary pension contribution and 2018 adjustments include \$118 million in discretionary pension contributions. 2020 adjustments include \$88 million late payment from customer received January 4, 2021.

Completion of capex campaign will drive an increase in FCF



Heightened capex returning to normalized levels



Future uses of FCF

Organic / inorganic initiatives

Capex

- 3.5-4.0% maintenance capex
- Minimal growth capex
- Nuclear medicine manufacturing expansion

M&A

- Disciplined
- Accelerate entry to "expand markets"

Return to shareholders

Dividends

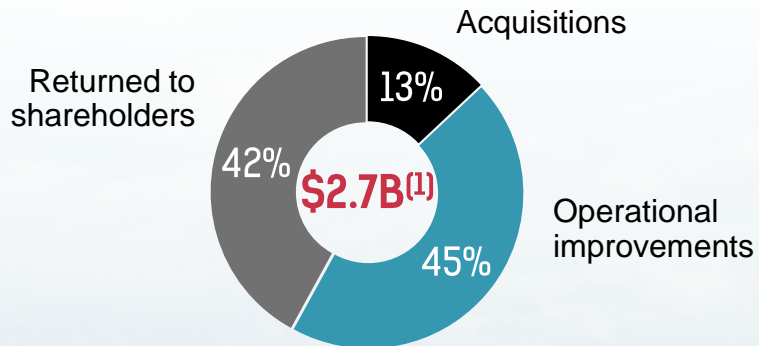
- Historically 20-30% of net income
- Steady growth

Share repurchases

- Acquire opportunistically when trading at discount to intrinsic value

1) Figures based on 2021 guidance narrowed on November 1, 2021 and issued on November 16, 2021. For more information refer to the quarterly earnings and related material found on the BWXT investor relations website

Capital allocation framework



\$1.2B

- Operational investments
- Capex
- Pension funding
- Debt repayments

\$1.2B

Returned to shareholders

\$800M

share repurchases

\$355M

dividends

\$0.3B

Acquisitions

1) Since July 1, 2015

Future priorities

- 1 Complete Tc-99m capital campaign
- 2 Fund nuclear adjacencies:
 - Microreactor manufacturing capacity
 - Advanced capabilities in nuclear medicine
 - Advanced nuclear fuels
- 3 Greater return to shareholders **>50%** FCF return
- 4 Potential acquisitions

Strategic uses of capital will continue alongside return of excess capital to shareholders

Strategic and financial criteria for M&A

Strategic criteria

- 1 Aligned with core competencies
- 2 In core markets or near target adjacencies
- 3 High barriers to entry-competitive positions
- 4 Accelerate innovation and time to market
- 5 Significant IP or process knowledge
- 6 Platform for additional transactions

Financial criteria

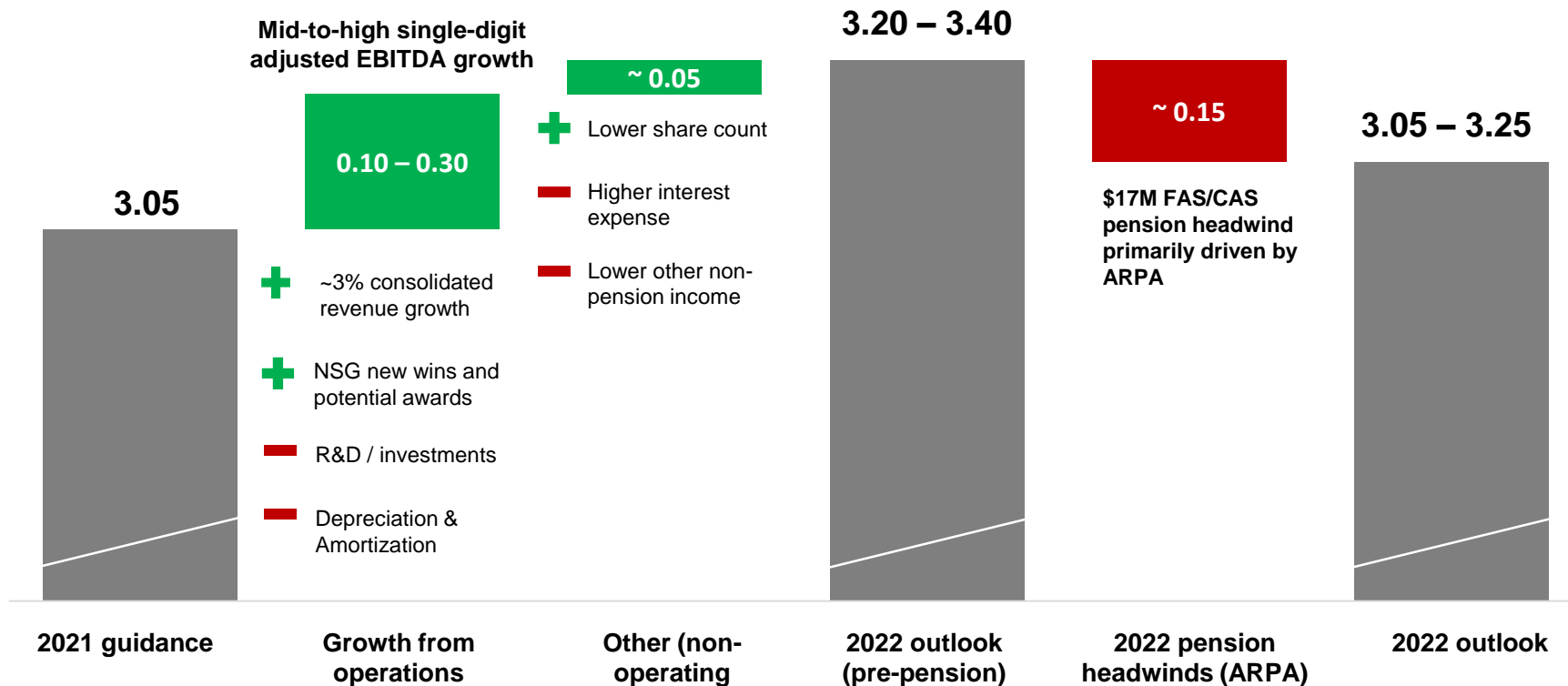
- ✓ Significant positive NPV (with synergies)
- ✓ Accretive to EPS⁽¹⁾ in year 1
- ✓ Enhanced BWXT financial profile
- ✓ Demonstrated, sustainable organic growth

1) Excludes first year purchase accounting amortization

2021 guidance to 2022 outlook⁽¹⁾ non-GAAP EPS⁽²⁾ bridge



(\$ per diluted share)



1) 2022 outlook issued on November 1, 2021 and reiterated on November 16, 2021. For more information refer to the quarterly earnings and related material found on the BWXT investor relations website
 2) Non-GAAP figures exclude any mark-to-market adjustment for pension and postretirement benefits recognized and other one-time items. A reconciliation of GAAP to adjusted, non-GAAP items can be found in the appendix of this presentation or on the investor relations website at www.bwxt.com/investors

Key takeaways

1

Solid growth in core business with near-term opportunities in near nuclear adjacencies

2

Near-term conclusion of capital campaigns expected to drive strong free-cash-flow inflection

3

Consistent view on achieving long-term financial results

4

Disciplined cash used to accelerate growth and balanced with shareholder-friendly capital return



EXECUTE

EXPAND

EXPLORE

Appendix – Pension summary, non-GAAP definitions and reconciliations

Pension summary



(\$millions)	2015 ⁽³⁾	2016	2017	2018	2019	2020	2021E	2022E
Benefit obligation at end of period	1,566	1,572	1,543	1,186	1,309	1,414		
Fair value of plan assets at end of period	1,210	1,218	1,258	1,024	1,150	1,281		
Funded status over (under)	(356)	(354)	(286)	(162)	(158)	(133)		
% Funded	77%	77%	81%	86%	88%	91%		
Pension funding (company contributions)	13	12	56	158	4	5	~5	~5*
Reported in other income								
Net periodic benefit cost (income)	36	2	(19)	6	(11)	(30)		
Recognized net actuarial Mark-To-Market (MTM) loss	61	28	8	37	9	7		
Net periodic benefit cost (income) excl. MTM loss	(24)	(26)	(27)	(31)	(21)	(37)	~(53)	~(53)
Reported in operating income								
Recoverable CAS ⁽¹⁾ costs	58	50	56	44	47	44	29	12
FAS ⁽²⁾ service cost	24	7	8	10	9	11	12	12
Total FAS⁽²⁾/CAS⁽¹⁾ differential	34	42	48	34	38	33	~17	~0**

1) CAS – Cost accounting standards in accordance with the Federal Acquisition Regulation and the related U.S. Government Cost Accounting Standards – used as basis for recovery of costs on government contracts

2) FAS – Financial accounting standards in accordance with GAAP and the way we report our financial results

3) Presentation of 2015 amounts reflects adoption of ASU 2017-07 which requires non-service cost components of net periodic benefit cost to be classified outside of operating income

*Similar funding levels are also anticipated for the foreseeable future based on current projections

**Minimal FAS/CAS differential income amounts are anticipated for the foreseeable future based on actuarial studies including ARPA discount rate and projections as of September 30, 2021



Non-GAAP figures exclude any mark-to-market adjustment for pension and postretirement benefits recognized and other one-time items.

Other non-GAAP definitions and calculations

Adjusted EBITDA = Earnings Before Interest, Taxes, Depreciation and Amortization. Calculated using non-GAAP Net income, plus Provision for Income Taxes, less Other – net, less Interest income, plus Interest expense, plus Depreciation and amortization.

FCF = Free Cash Flow. Calculated using non-GAAP net income to derive Net Cash Provided By (Used In) Operating Activities less Purchases of property, plant and equipment.

FCF Conversion = Free Cash Flow Conversion. Free Cash Flow divided by non-GAAP net income

2020 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2020
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	One-time franchise tax audit expense	Restructuring Costs	Costs Associated with Sale of Business	Debt Issuance Costs	Non-GAAP
Operating Income	\$ 358.6	\$ -	\$ 2.6	\$ 2.3	\$ 2.9	\$ -	\$ 366.3
Other Income (Expense)	3.6	6.4	-	-	-	0.5	10.5
Provision for Income Taxes	(83.0)	(1.6)	(0.6)	(0.6)	(0.7)	(0.1)	(86.5)
Net Income	279.2	4.8	2.0	1.7	2.2	0.4	290.3
Net Income Attributable to Noncontrolling Interest	(0.5)	-	-	-	-	-	(0.5)
Net Income Attributable to BWXT	\$ 278.7	\$ 4.8	\$ 2.0	1.7	2.2	\$ 0.4	\$ 289.8
Diluted Shares Outstanding	95.7						95.7
Diluted Earnings per Common Share	\$ 2.91	\$ 0.05	\$ 0.02	\$ 0.02	\$ 0.02	\$ 0.00	\$ 3.03
Effective Tax Rate	22.9%						23.0%
Net Income	\$ 279.2	\$ 4.8	\$ 2.0	\$ 1.7	\$ 2.2	\$ 0.4	\$ 290.3
Provision for Income Taxes	83.0	1.6	0.6	0.6	0.7	0.1	86.5
Other - net	(34.1)	(6.4)	-	-	-	-	(40.5)
Interest Income	(0.5)	-	-	-	-	-	(0.5)
Interest Expense	31.0	-	-	-	-	(0.5)	30.5
Depreciation & Amortization	60.7	-	-	-	-	-	60.7
Adjusted EBITDA	\$ 419.2	\$ -	\$ 2.6	2.3	2.9	\$ -	\$ 427.0
NSG Operating Income	\$ 26.4	-	-	-	\$ 1.0	-	\$ 27.4

1) Tables may not foot due to rounding.

2019 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2019
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	Acquisition Related Costs	Restructuring & Impairment Costs	Non-GAAP
Operating Income	\$ 325.5	\$ -	\$ 0.2	\$ 5.8	\$ 331.5
Other Income (Expense)	(11.8)	3.6	-	-	(8.1)
Provision for Income Taxes	(69.1)	(0.9)	(0.0)	(1.5)	(71.5)
Net Income	244.7	2.7	0.1	4.3	251.8
Net Income Attributable to Noncontrolling Interest	(0.6)	-	-	-	(0.6)
Net Income Attributable to BWXT	\$ 244.1	\$ 2.7	0.1	4.3	\$ 251.3
Diluted Shares Outstanding	95.8				95.8
Diluted Earnings per Common Share	\$ 2.55	\$ 0.03	\$ 0.00	\$ 0.04	\$ 2.62
Effective Tax Rate	22.0%				22.1%
Net Income	\$ 244.7	\$ 2.7	\$ 0.1	\$ 4.3	\$ 251.8
Provision for Income Taxes	69.1	0.9	0.0	1.5	71.5
Other - net	(22.6)	(3.6)	-	-	(26.2)
Interest Income	(0.9)	-	-	-	(0.9)
Interest Expense	35.3	-	-	-	35.3
Depreciation & Amortization	61.7	-	-	-	61.7
Adjusted EBITDA	\$ 387.2	\$ -	0.2	5.8	\$ 393.2
NSG Operating Income	\$ 14.2	-	-	\$ 2.9	\$ 17.1

1) Tables may not foot due to rounding.

2018 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2018
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	Acquisition Related Costs	Recognition of Debt Issuance Costs from Former Credit Facility	Gain on Forward Contracts	One Time Tax (Benefit) / Losses	Non-GAAP
Operating Income	\$ 305.0	\$ -	\$ 2.5	\$ -	\$ -	\$ -	\$ 307.5
Other Income (Expense)	(24.8)	32.6	-	2.4	(4.7)	-	5.5
Provision for Income Taxes	(52.8)	(7.5)	(0.6)	(0.6)	1.2	(13.5)	(73.8)
Net Income	227.3	25.1	1.9	1.8	(3.5)	(13.5)	239.1
Net Income Attributable to Noncontrolling Interest	(0.3)	-	-	-	-	-	(0.3)
Net Income Attributable to BWXT	\$ 227.0	\$ 25.1	1.9	1.8	\$ (3.5)	\$ (13.5)	\$ 238.8
Diluted Shares Outstanding	100.0						100.0
Diluted Earnings per Common Share	\$ 2.27	\$ 0.25	\$ 0.02	\$ 0.02	\$ (0.03)	\$ (0.13)	\$ 2.39
Effective Tax Rate	18.9%						23.6%
Net Income	\$ 227.3	\$ 25.1	\$ 1.9	\$ 1.8	\$ (3.5)	\$ (13.5)	\$ 239.1
Provision for Income Taxes	52.8	7.5	0.6	0.6	(1.2)	13.5	73.8
Other - net	(0.5)	(32.6)	-	-	4.7	-	(28.4)
Interest Income	(2.5)	-	-	-	-	-	(2.5)
Interest Expense	27.8	-	-	(2.4)	-	-	25.4
Depreciation & Amortization	60.1	-	-	-	-	-	60.1
Adjusted EBITDA	\$ 365.1	\$ -	2.5	-	\$ -	\$ -	\$ 367.6

1) Tables may not foot due to rounding.

2017 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2017
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	Litigation	Impairment (Gains) / Charges	One Time Tax (Benefit) / Losses	Executive Restructuring	Non-GAAP
Operating Income	\$ 292.2	\$ -	\$ (7.9)	\$ -	\$ -	\$ 2.6	\$ 287.0
Other Income (Expense)	3.6	11.1	-	(0.4)	-	-	14.2
Provision for Income Taxes	(147.4)	(4.2)	2.8	0.0	54.6	(1.0)	(95.1)
Net Income	148.4	6.9	(5.1)	(0.4)	54.6	1.7	206.1
Net Income Attributable to Noncontrolling Interest	(0.5)	-	-	-	-	-	(0.5)
Net Income Attributable to BWXT	\$ 147.8	\$ 6.9	\$ (5.1)	\$ (0.4)	\$ 54.6	\$ 1.7	\$ 205.6
Diluted Shares Outstanding	100.4						100.4
Diluted Earnings per Common Share	\$ 1.47	\$ 0.07	\$ (0.05)	\$ (0.00)	\$ 0.54	\$ 0.02	\$ 2.05
Effective Tax Rate	49.8%						31.6%
Net Income	\$ 148.4	\$ 6.9	\$ (5.1)	\$ (0.4)	\$ 54.6	\$ 1.7	\$ 206.1
Provision for Income Taxes	147.4	4.2	(2.8)	(0.0)	(54.6)	1.0	95.1
Other - net	(17.0)	(11.1)	-	0.4	-	-	(27.7)
Interest Income	(1.4)	-	-	-	-	-	(1.4)
Interest Expense	14.9	-	-	-	-	-	14.9
Depreciation & Amortization	56.6	-	-	-	-	-	56.6
Adjusted EBITDA	\$ 348.8	\$ -	\$ (7.9)	\$ -	\$ -	\$ 2.6	\$ 343.5
NSG Operating Income	\$ 22.1	-	\$ (7.9)	-	-	-	\$ 14.2

1) Tables may not foot due to rounding.

2016 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2016
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	Performance Guarantees Release	mPower Deconsolidation	Framework Agreement & Litigation	Impairment (Gains) / Charges	One Time Tax (Benefit) / Losses	Executive Restructuring	Non-GAAP
Operating Income	\$ 234.4	\$ -	\$ -	\$ -	\$ 13.9	\$ -	\$ -	\$ 4.5	\$ 252.8
Other Income (Expense)	22.8	21.3	(9.3)	(13.6)	-	(1.6)	-	-	19.7
Provision for Income Taxes	(73.7)	(7.1)	3.4	-	(5.6)	-	(5.0)	(1.6)	(89.6)
Net Income	183.6	14.2	(5.9)	(13.6)	8.3	(1.6)	(5.0)	2.8	182.9
Net Income Attributable to Noncontrolling Interest	(0.6)	-	-	-	-	-	-	-	(0.6)
Net Income Attributable to BWXT	\$ 183.1	\$ 14.2	(5.9)	(13.6)	\$ 8.3	\$ (1.6)	\$ (5.0)	\$ 2.8	\$ 182.3
Diluted Shares Outstanding	103.8								103.8
Diluted Earnings per Common Share	\$ 1.76	\$ 0.14	\$ (0.06)	\$ (0.13)	\$ 0.08	\$ (0.02)	\$ (0.05)	\$ 0.03	\$ 1.76
Effective Tax Rate	28.6%								32.9%
Net Income	\$ 183.6	\$ 14.2	\$ (5.9)	\$ (13.6)	\$ 8.3	\$ (1.6)	\$ (5.0)	\$ 2.8	\$ 182.9
Provision for Income Taxes	73.7	7.1	(3.4)	-	5.6	-	5.0	1.6	89.6
Other - net	(30.6)	(21.3)	9.3	13.6	-	1.6	-	-	(27.4)
Interest Income	(0.7)	-	-	-	-	-	-	-	(0.7)
Interest Expense	8.4	-	-	-	-	-	-	-	8.4
Depreciation & Amortization	50.6	-	-	-	-	-	-	-	50.6
Adjusted EBITDA	\$ 285.0	\$ -	-	-	\$ 13.9	\$ -	\$ -	\$ 4.5	\$ 303.4

1) Tables may not foot due to rounding.

2015 non-GAAP reconciliation



For the Twelve Months Ended December 31, 2015
(In millions, except per share amounts)

	GAAP	Pension & OPEB MTM (Gain) / Loss	Spin / Other Restructuring	Impairment (Gains) / Charges	One Time Tax (Benefit) / Losses	Litigation Proceeds	Non-GAAP
Operating Income	\$ 236.1	\$ -	\$ 42.6	\$ -	\$ -	\$ (65.7)	\$ 213.0
Other Income (Expense)	(15.1)	54.7	-	2.9	-	(29.1)	13.5
Provision for Income Taxes	(80.4)	(19.2)	(12.2)	(1.0)	7.7	31.6	(73.5)
Net Income	140.6	35.4	30.4	1.9	7.7	(63.2)	152.9
Net Income Attributable to Noncontrolling Interest	0.1	-	-	-	-	-	0.1
Net Income Attributable to BWXT	\$ 140.8	\$ 35.4	\$ 30.4	\$ 1.9	\$ 7.7	\$ (63.2)	\$ 153.1
Diluted Shares Outstanding	107.6						107.6
Diluted Earnings per Common Share	\$ 1.31	\$ 0.33	\$ 0.28	\$ 0.02	\$ 0.07	\$ (0.59)	\$ 1.42
Effective Tax Rate	36.4%						32.5%
Net Income	\$ 140.6	\$ 35.4	\$ 30.4	\$ 1.9	\$ 7.7	\$ (63.2)	\$ 152.8
Provision for Income Taxes	80.4	19.2	12.2	1.0	(7.7)	(31.6)	73.5
Other - net	35.2	(54.7)	-	(2.9)	-	-	(22.4)
Interest Income	(30.3)	-	-	-	-	29.1	(1.2)
Interest Expense	10.2	-	-	-	-	-	10.2
Depreciation & Amortization	57.2	-	-	-	-	-	57.2
Adjusted EBITDA	\$ 293.2	\$ -	\$ 42.6	\$ -	\$ -	\$ (65.7)	\$ 270.1

1) Tables may not foot due to rounding.