

Ion Beam Applications Capital Markets Day

Monday 26th September 2016

Olivier Legrain & IBA Management Team investorrelations@iba-group.com





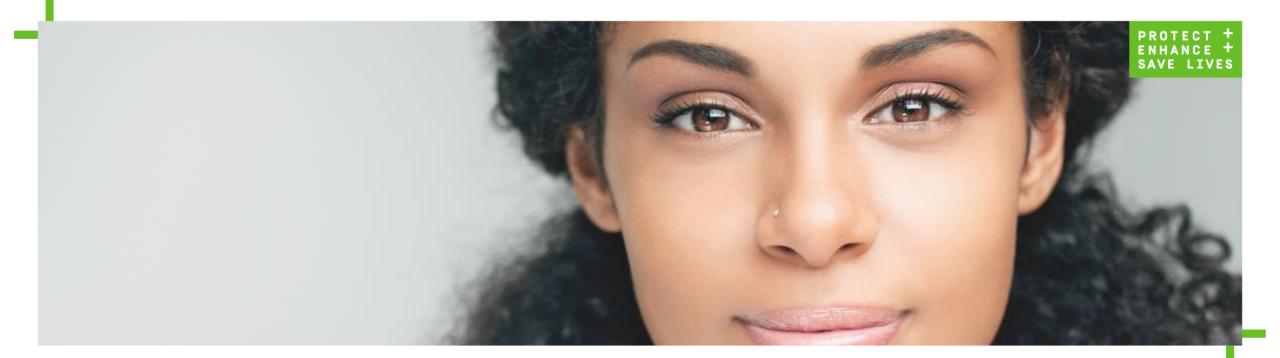
This presentation may contain forward-looking statements concerning industry outlook, including growth drivers; the company's future orders, revenues, backlog, or earnings growth; future financial results; market acceptance of or transition to new products or technology and any statements using the terms "could," "believe," "outlook," or similar statements are forward-looking statements that involve risks and uncertainties that could cause the company's actual results to differ materially from those anticipated.

The company assumes no obligation to update or revise the forward-looking statements in this release because of new information, future events, or otherwise.





- Business and strategy update
- Dosimetry at a glance
- The Future of Proton Beam Radiotherapy
- North America update
- Guidance



Business and Strategy Update

Monday 26th September 2016

Olivier Legrain (CEO) investorrelations@iba-group.com

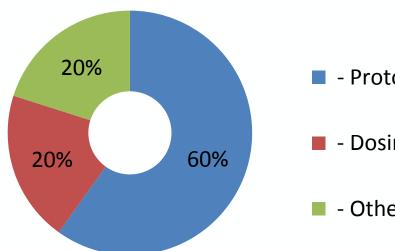


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* Proteus®PLUS and Proteus®PLUS are the brand names of a Proteus®235 configuration

IBA today

- IBA is a worldwide technology leader in the field of proton therapy
 - Most advanced form of cancer treatment with radiation therapy today
 - Complete offering (Proteus[®]PLUS and Proteus[®]ONE)
- Global leader in dosimetry and particle accelerators
- Three activities with significant market share :



- Proton therapy
 - Dosimetry
- Other Accelerators





Proton Therapy

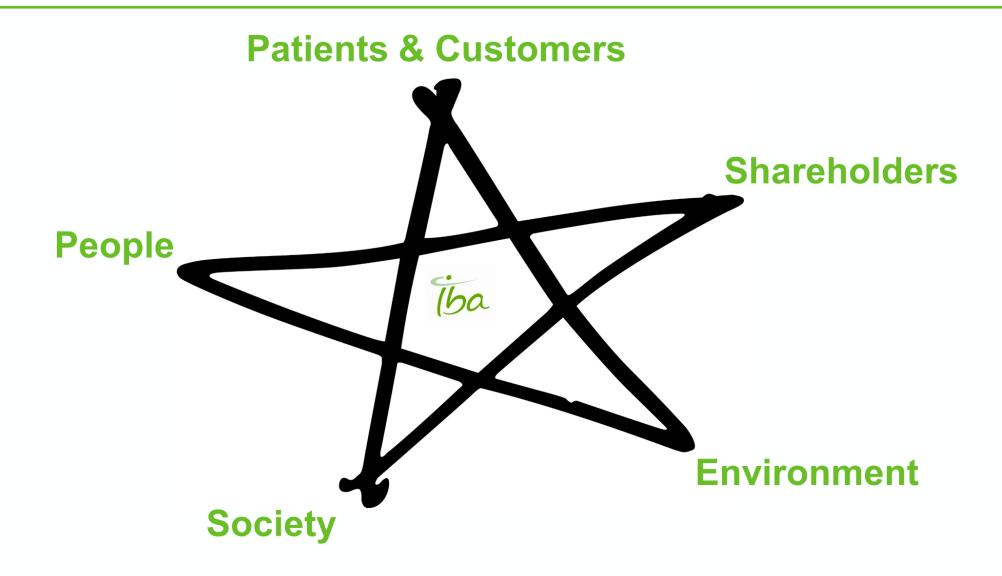


Dosimetry









Reshaping IBA Culture

New Culture

- 2-day session where 250 managers learned to concretely change their thinking and behavior
- 14 culture concepts identified as key in shifting our culture discussed each month with the teams
- We are global



160



Expansion Strategy and CAPEX

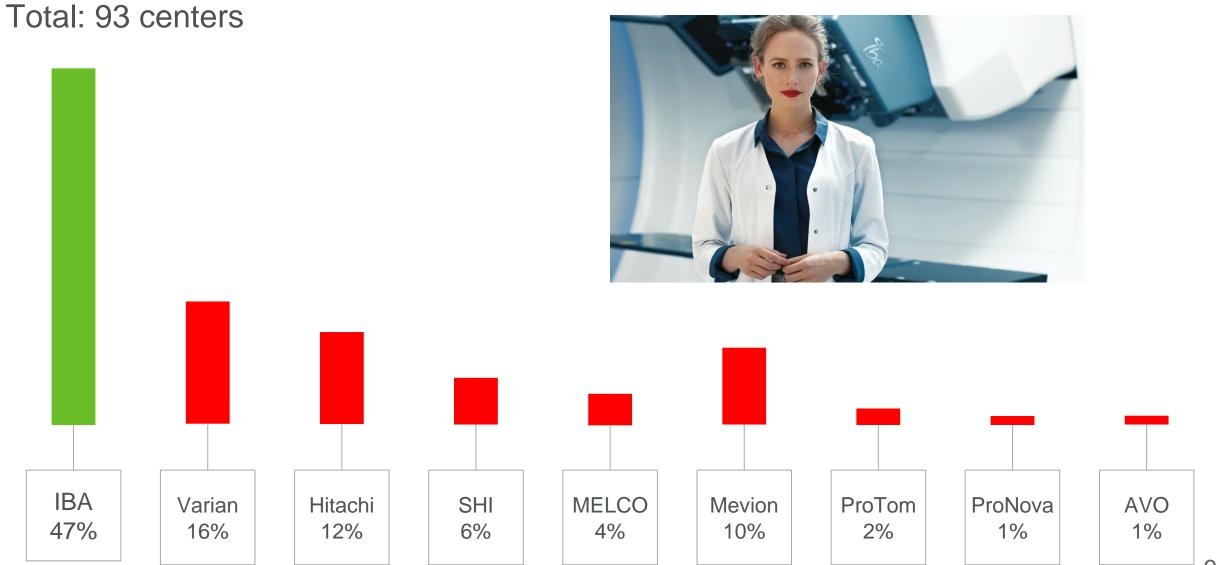


- Recruitment 400 engineers and related staff to increase headcount from 1,200 to 1,600 in the next 12 months – 50% in Belgium, remainder in the USA, Europe and Asia
 - 206 already identified
- CAPEX scale-up program to increase capacity including investment in production (new Proteus[®]ONE assembly line) & marketing infrastructure (customer center) of EUR 15 million over 2 years



Leading the install base - Market shares in systems





Leading the install base - Market shares in rooms



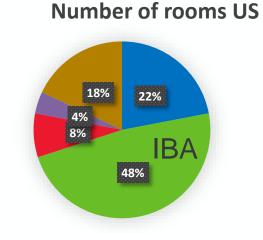
Total: 235 rooms Iba **IBA** Varian Hitachi SHI MELCO ProTom ProNova AVO Mevion 47% 21% 0% 15% 5% 5% 4% 2% 1%

10

Market shares in rooms by geography



Rooms (YTD)



Hitachi

Mevion

Protom

Varian

Hitachi

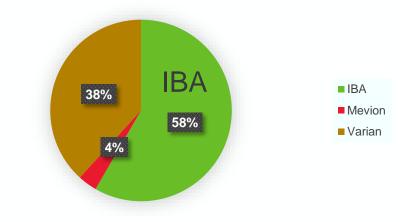
MELCO

IBA

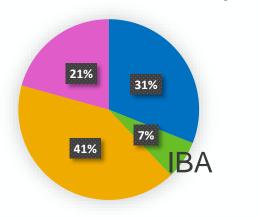
SHI

IBA

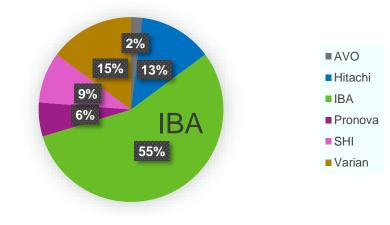
Number of rooms EMEA + ROW



Number of rooms Japan



Number of rooms - Rest of APAC





DRIVERS FOR GROWTH

Growing recognition of proton therapy clinical advantages



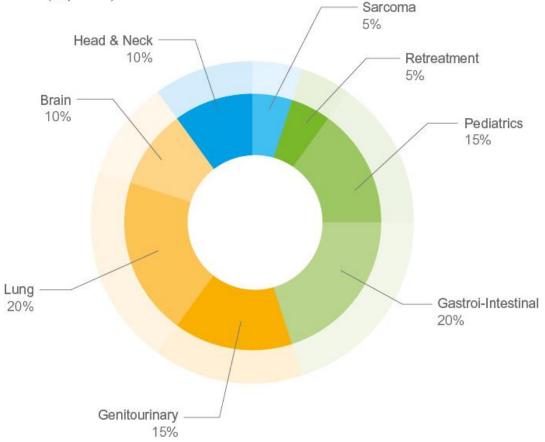




experiences



Proton Therapy Typical Cancer Indication Mix (% patients)



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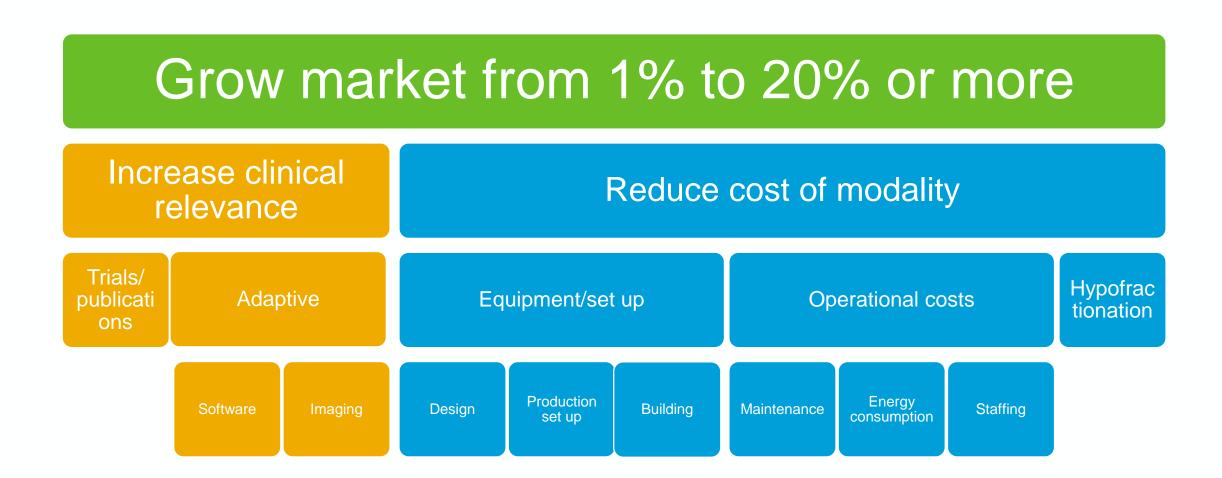


Grow market from 1% to 20% or more

Maintain or improve market share













Increasing clinical relevance of proton therapy



- IBA strategy
 - Support Focus groups
 - Pediatric
 - Lung
 - Head & Neck
 - Radio-biologic effect
 - Publish White Papers
 - PT in Oncology
 - Treating pediatric tumors with PT
 - + GI, H&N and Hodgkin Lymphoma

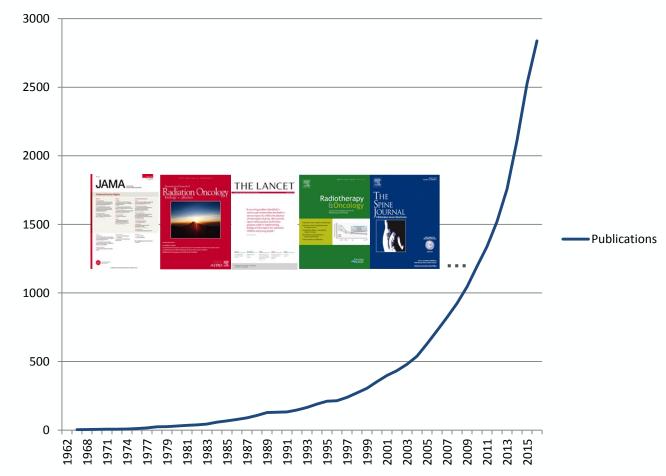
Ongoing clinical trial Total 135



ocular
spine
pancreas
prostate
bone soft tissues
breast
pediatric
others

head and neck
liver
esophagus, anal
uterus, cervix
lung
brain, CNS, skullbase
lymphoma, hodgkins

Cumulative number of PT publications





- Integration
- Workflow

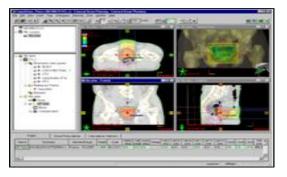
- Adaptive
- Imaging



Excellence in Proton Therapy : Integration



TPS/OIS: Open Vendor Strategy (freedom to choose according to your need)



Treatment Planning

- Xio (Elekta) : 12 centers
- Eclipse (Varian) : 7 centers
- RayStation (Raysearch) : 17 centers
- Pinnacle*(Philips) : 4 sites



Oncology Information System

- Mosaiq (Elekta) : 20 centers
- Aria (Varian) : 3 centers
- RayCare (Raysearch): In development



Proton Treatment delivery System

IBA

Patient throughput – integration - efficiency







WIRELESS



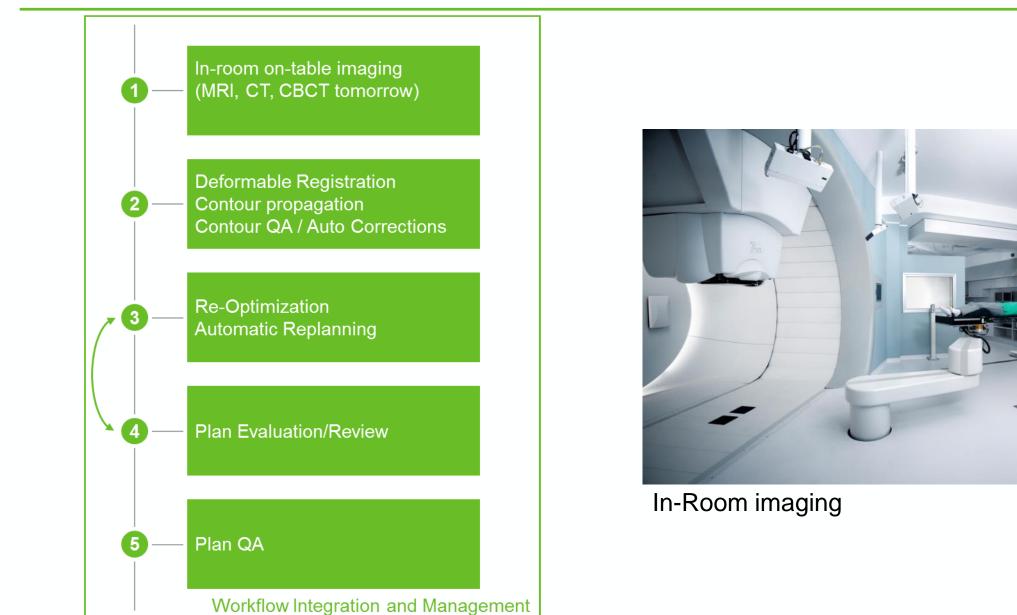
And more... with Philips Ambient experience





Focus on Online Adaptive Workflow





Strategic partnerships in adaptive therapy



PHILIPS

Step up collaboration in adaptive proton therapy planning to advance personalized cancer care

Joint offering of unique proton therapy solutions

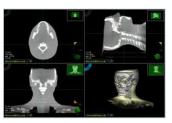




Next generation proton therapy planning to further increased efficiencies in the patient treatment workflow



Ambient Experience



Enhanced Cone Beam CT imaging technology

By combining expertise in image guidance, software planning and therapy



New alliance to offer a unique integrated comprehensive solution for adaptative proton therapy





NEXT PLATFORM GENERATION

- ✓ Seamless integration of RayCare and RayStation with IBA delivery solutions
- ✓ Optimal workflows
- ✓ Optimized functionalities for proton therapy
- ✓ Treatment adaptation
- ✓ Better operationability
- \checkmark Integrated user interface

Adaptive Therapy - Open innovative program



			PATh → Open innovation program, focused on Proton Adaptive Therapy	
		Leading the Launch camp + landing we	baign	
Open PATh → Gateway towards open-source software initiatives		PATh Forum	→ Discussion platform for opinion leaders	Other initiatives to come
RTK → image registration algorithms	REGGUI → Matlab-base prototyping f	-	Other open-source modules to come	
	Example application: vCT offline adaptive workflow		Other shared examples to come	



CBCT Penn Medicine, USA

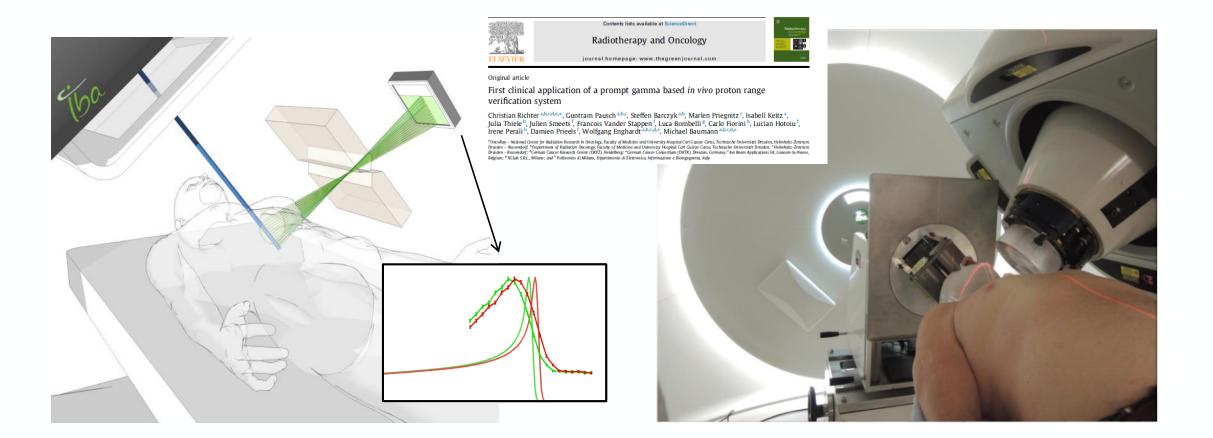
In-Room CT, Trento, Italy





Adaptive therapy – real time monitoring

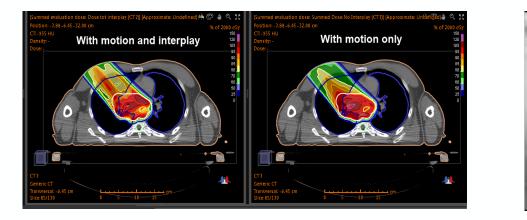




Two prototypes in clinical use: Europe and USA

Organ motion management









Planning optimization

4D CBCT

Breath-hold (<10s)

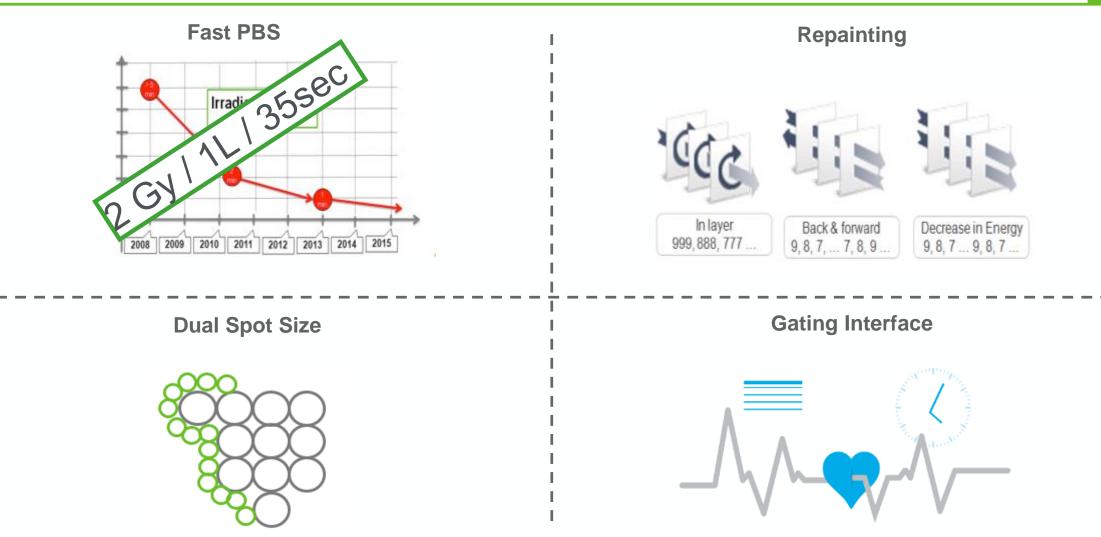






Motion Management : Today

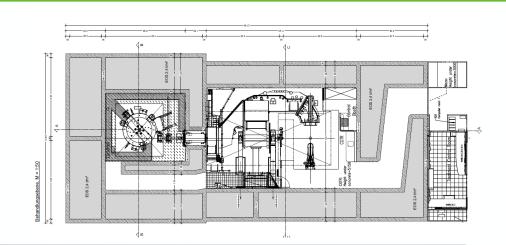




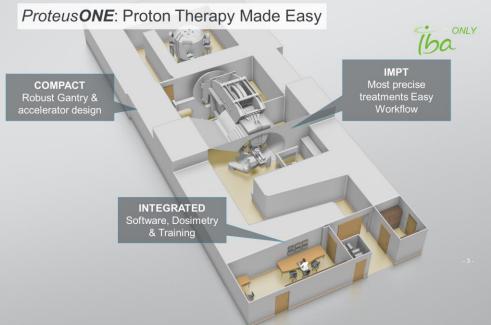
Several centers start to treat moving tumors with PBS

Reduce cost of the set up

- Proteus One
 - ✓ FDA cleared
 - ✓ CE marked
 - Treating patients in 2 sites
 - ✓ Shonin filed in Japan



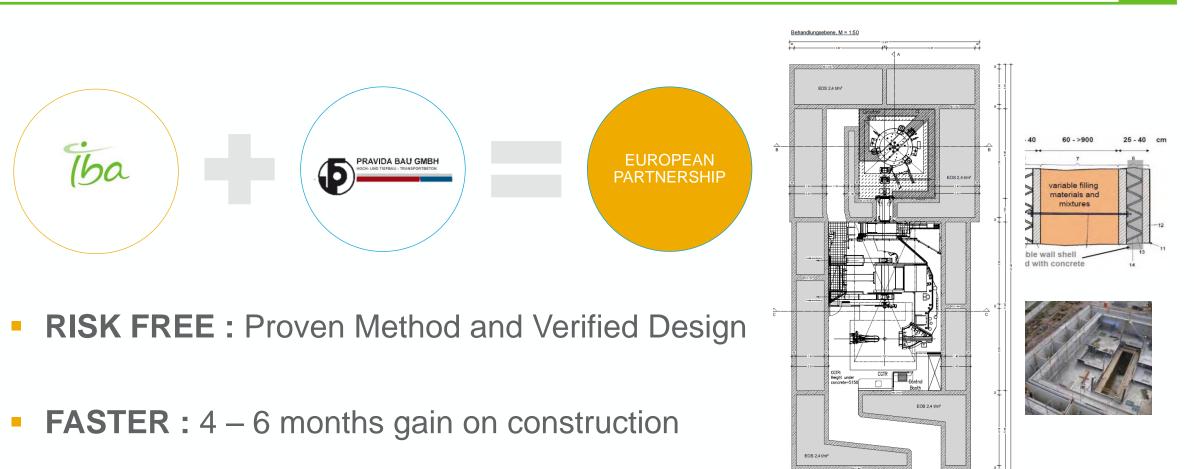






Turnkey Building Solution

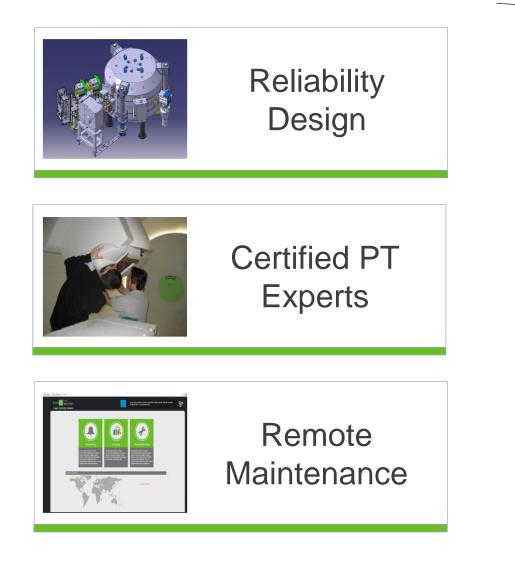




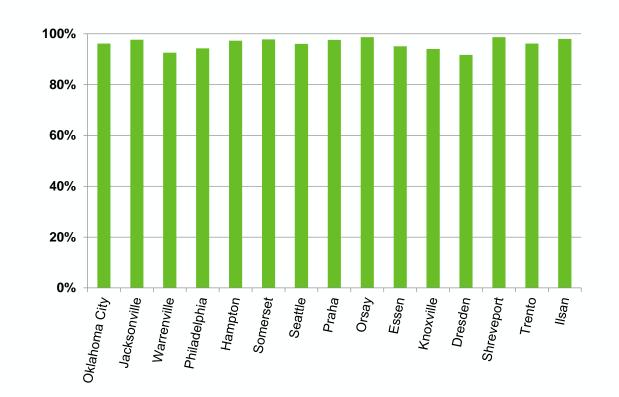
ENVIRONMENTALLY FRIENDLY : Low activation

Maximum system availability guaranteed





2015 Availability Uptime above 98%



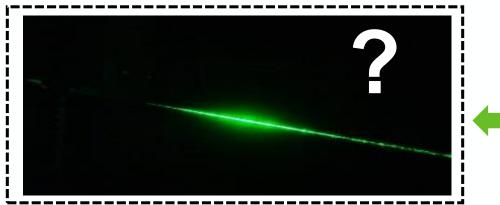
What's next

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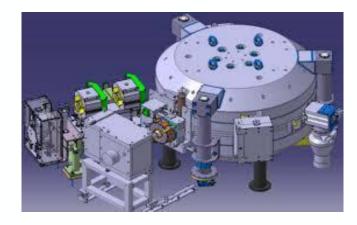
Being ready for a next potential move !







??? years





IBA Dosimetry at a Glance

Frédéric Genin (Chief Marketing Officer Proton Therapy) | communication@iba-group.com



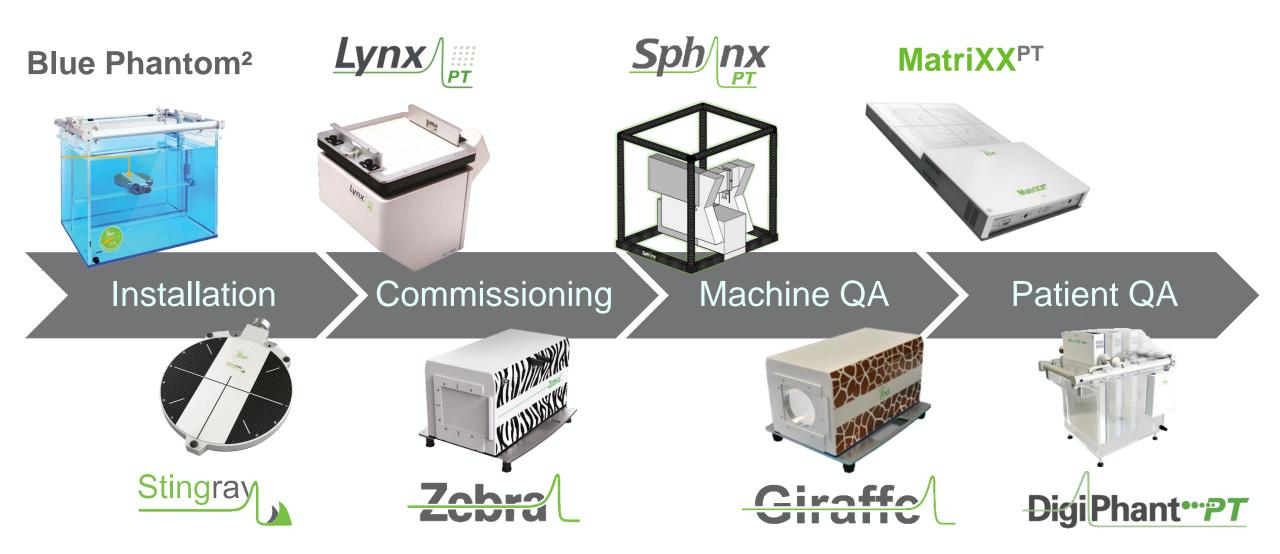
Online Treatment Monitoring (Linac)





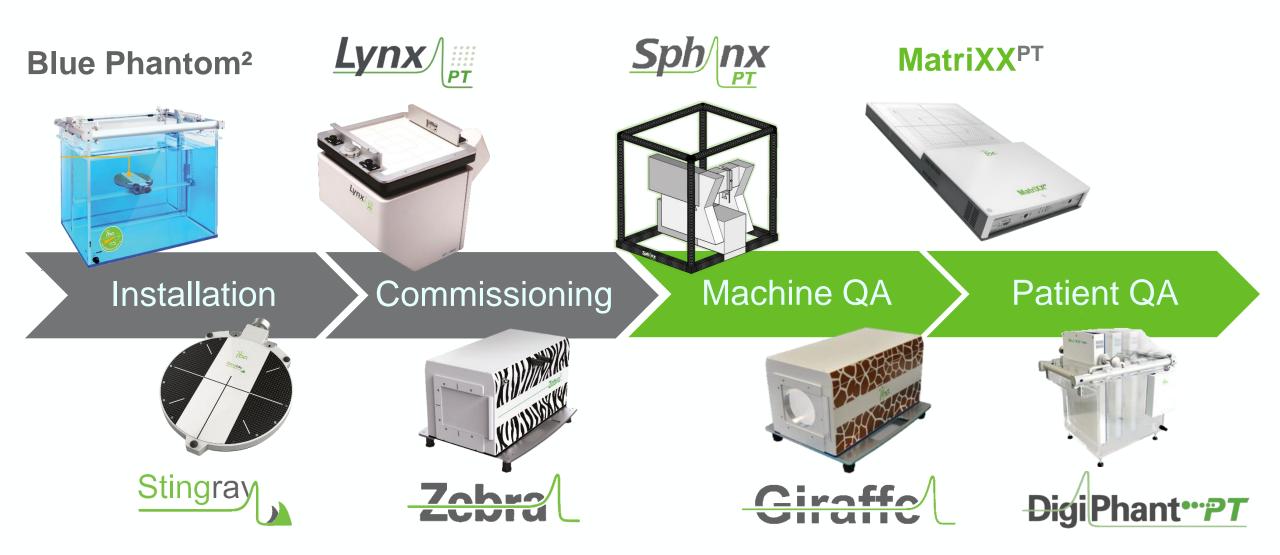
From System Installation to Patient QA



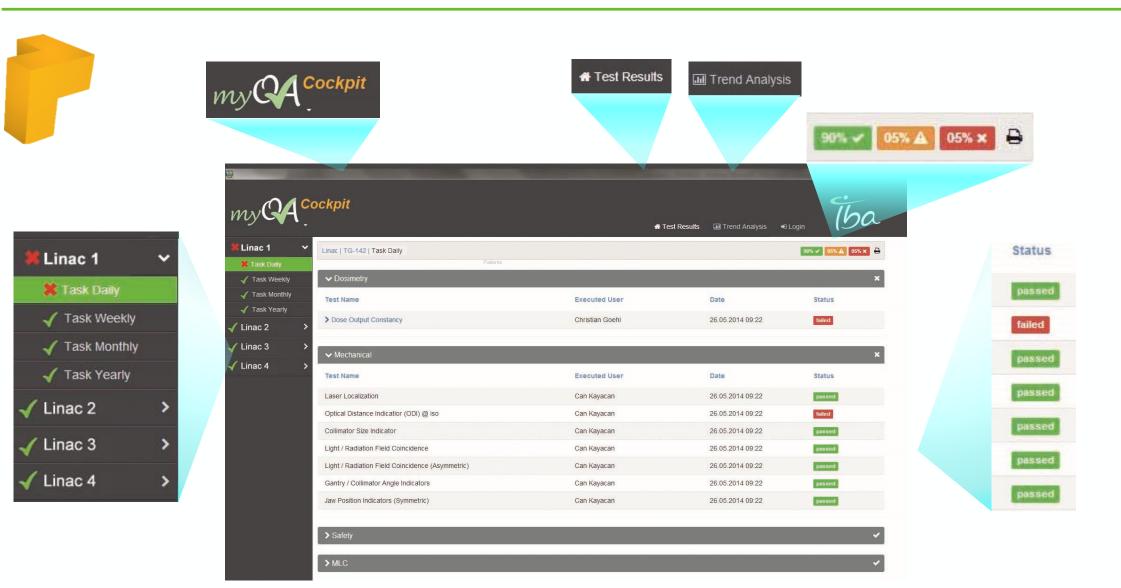


From System Installation to Patient QA





my $\mathbf{Q} \mathbf{A}^{\mathsf{M}}$ The key to the future of IBA Dosimetry



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* Not released yet



IBA North America

Capital Markets Day, ASTRO 2016

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Beth Klein (President, North America PT) | beth.klein@iba-group.com

IBA Proton Therapy North America

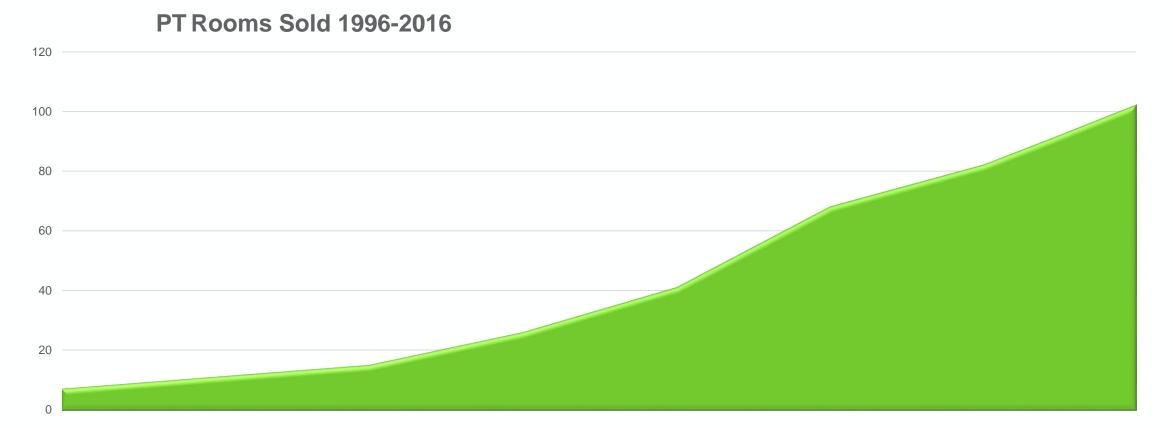


All Proton Therapy Activities co-located in Reston :

- Sales, Marketing, Sales Support, Product Specialists
- Project management, Install Teams
- Service Delivery, Operations
- Installed Base Upgrades
- EHS, Legal, Information Technology
- Finance
- Research and Development

>300 PT Experts focused on serving our customers better and faster !

Projected PT Market Growth/Opportunity N. America



How can we accelerate to MAX POTENTIAL?

. Iba

High Level Market Drivers



ACCELERATORS

- Competition fueling demand (fear of losing share)
 - Turf war is on defensive & offensive strategies
 - Fear of losing patients/revenue > fear of PT investment
- Prestige driving academic institutions
 - Need PT to attract & maintain top academic staff
 - PT becoming a "Must-Have" for a complete residency program
 - PT Research becoming the "new thing"
- Reduction in barriers to entry
 - Increased indications/throughput due to PBS and CBCT
 - Affordable compact systems
 - Access to capital easing-up
 - Linac-like workflow

BRAKES

- Reimbursement
 - Election year anxiety
 - Value Paradigm/MACR impact?
 - Private Payers not paying; no prostate
- TCO (Total cost of Ownership) High
 - Price pressure on equip, svc, terms
 - Competing projects
- Clinical demand/Market awareness still low
 - Quantification of PT value needed



IBA NAM PT Market Share Snapshot 2016

	Facilities	Market share	Rooms	share	Single room facilities	Rooms in multi room facilities
IBA	14	44%	44	48%	3	41
Hitachi	5	16%	20	22%	0	20
Mevion	7	22%	7	8%	7	0
Protom	2	6%	4	4%	1	3
Varian	4	12%	16	18%	0	16
	32		91			

Includes

- Installed Base
- Under installation
- Firm orders

Number of rooms US

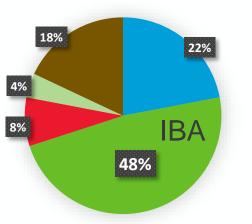
Hitachi

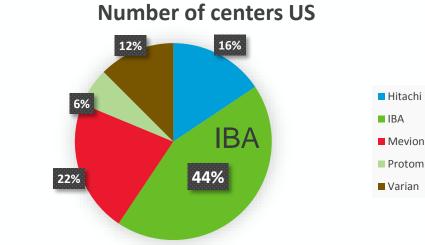
Mevion

Protom

Varian

IBA





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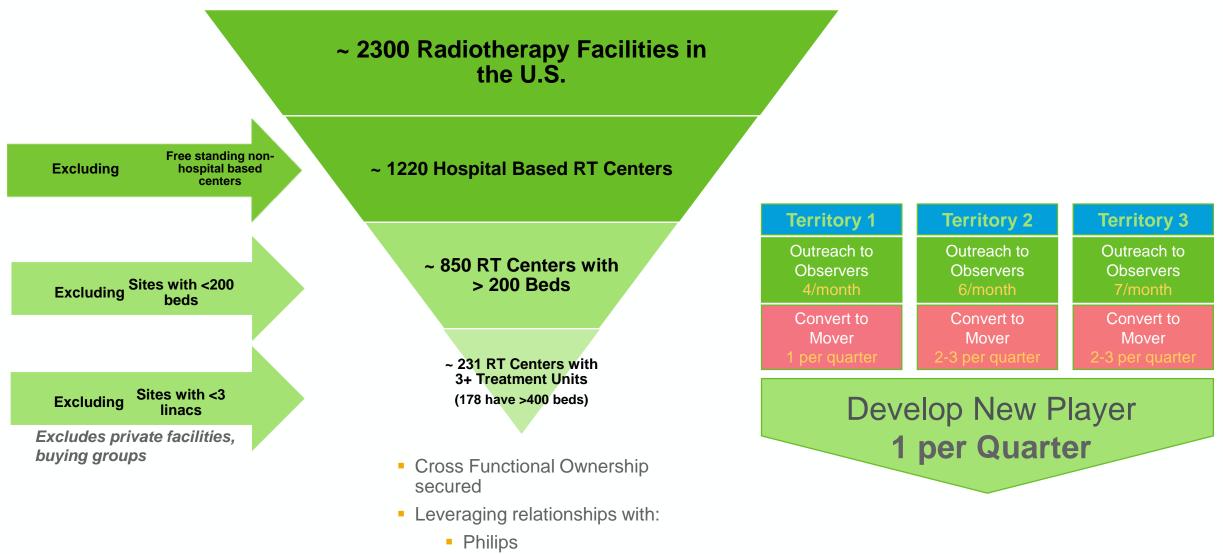
Proton Therapy Installed Base North America



IBA (14)
Mevion (7)
Varian (4)
Hitachi (5)
Protom (2)



IBA NAM PT Top-Down Account Segmentation



- RaySearch
- Elekta

lba

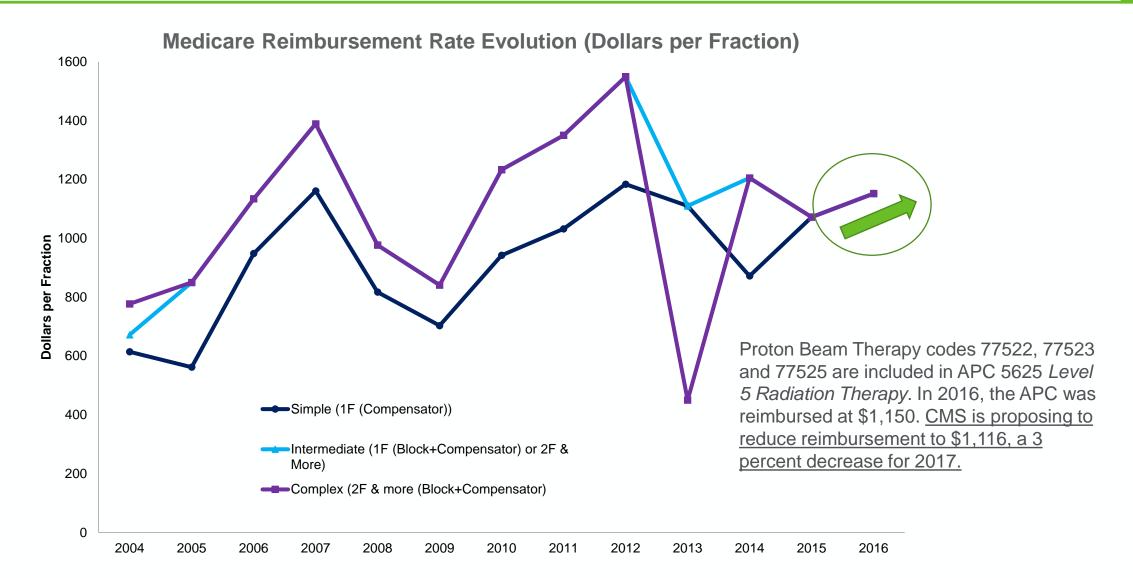
Why is IBA successful in PT in North America?

- 1. Experience: 30 years dedicated to PT Success from Start to Finish
- 2. NO Obsolescence: proven upgradeability path
- 3. Execution: 12 months installation guaranteed
- 4. Training: comprehensive training program
- 5. Uptime: demonstrated and proven (97%)
- 6. Stability: profitable and growing (270M Euro, ~ 11% REBIT*, ~ 11% R&D)
- 7. Financing: flexible financial options



lha

Reimbursement Trend Supporting PT Development



lba



What is it?

- Shift in Payment from Fee-for-Service Model to Value Based Payment
- Value is defined by Quality/Cost
- Quality is being defined between providers and CMS
- MACR alignment with CMS is key to Congress vote to go forward

Why is this significant for PT?

- PT has a higher value for a number of patients than RT for many indications based upon quality factors:
 - Less cost of side effects
 - Less cost of radiation induced complications over patient life
 - Longer life

What is IBA doing to impact/influence this?

- Contracted with mega data analytics company (focus on oncology solutions) to extrapolate life cycle cost of PT vs RT patients using CMS SEER and TRUVEN data; >1M patients
- CMS connections to ensure that patient analytics are being



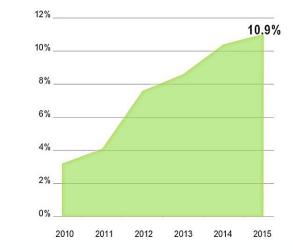
FINANCIALS AND GUIDANCE

Key financials



- 2015 sales: EUR 270 million (+ 22.6%); H1 16: +19,9%;
- REBIT margin 2015 : 10.9% ; H1 16: +20,0%
- Backlog of EUR 349 million end H1 16 (+15% vs H1 15).





REBIT / Sales and services trends



PT Service backlog

* Number of Service Contracts

Equipment backlog



- Based on the following elements at H1 2016 :
 - PT & Other Accelerators equipment backlog of EUR 349 million
 - PT & Other Accelerators service backlog of EUR 567 million, representing 37 signed contracts of 10 years on average
 - Dosimetry backlog of EUR 18.3 million
 - Clear production and installation schedule for 22 PT projects offering high visibility
 - > EUR 1 billion strong & growing PT pipeline of which 70% Proteus®ONE where IBA has a unique competitive position
- Top line guidance confirmed :
 - "above 20%" top line growth in 2016 despite slow year for Dosimetry
 - Double-digit revenue growth expected for foreseeable future

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• **REBIT** guidance confirmed :

- About 11% in 2016
- 13 to 15% by 2018

Guidance supported by the balance between :

- Economies of scale/operational leverage
- Growing importance of Services
- Price erosion
- Investment in scaling up company production capacity and marketing infrastructure
- Investment in R&D to maintain market leadership

Dividend: target 30% dividend payout confirmed







"Thank you

