



Value Partnership pubblico-privato: nuovi ambiti di applicazione

Giugno 2023, Bergamo – Laboratorio 20/30

Carlo Sacchi, Siemens Healthineers

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Agenda

- 1 | **L'esperienza UK dei Community Diagnostic Centres**
- 2 | **Applicazioni di Value Partnership ai Patient Pathways**
- 3 | **Nuove applicazioni di Value Partnership**

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L'esperienza UK dei Community Diagnostic Centres: le esigenze

30%
 of patients had been waiting six weeks or more for a diagnostic test

60%
 of patients in Britain are frustrated from having to wait for medical appointments

42%
 of patients say having easier access to appointments would encourage them to get screened

In 2021, the UK government made a significant commitment of £2.3 billion to help increase the volume of diagnostic activity in the country, and reduce patient waiting times. The goal is to roll out as many as 165 CDCs over the next few years to help clear backlogs of people waiting for tests such as MRIs, ultrasounds and CT scans.

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The Community Diagnostic Centres
 The Basic Concept

The six primary aims of CDCs:

- Reduce Health Inequalities
- Improve Productivity & Efficiency
- Increase Diagnostic Capacity & Activity
- Improve Patient Experience
- Support Care Integration
- Improve Population Health Outcomes

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Fonte: [siemens-healthineers.com/insights-series](https://www.siemens-healthineers.com/insights-series)



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L'esperienza UK dei Community Diagnostic Centres: focus su Patient Pathways

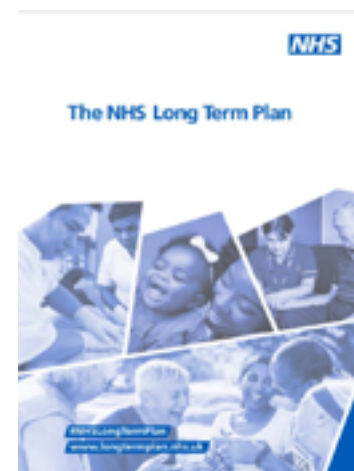
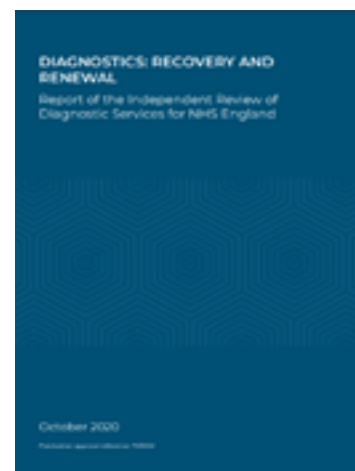
Examples:

- **Community Lung Screening**

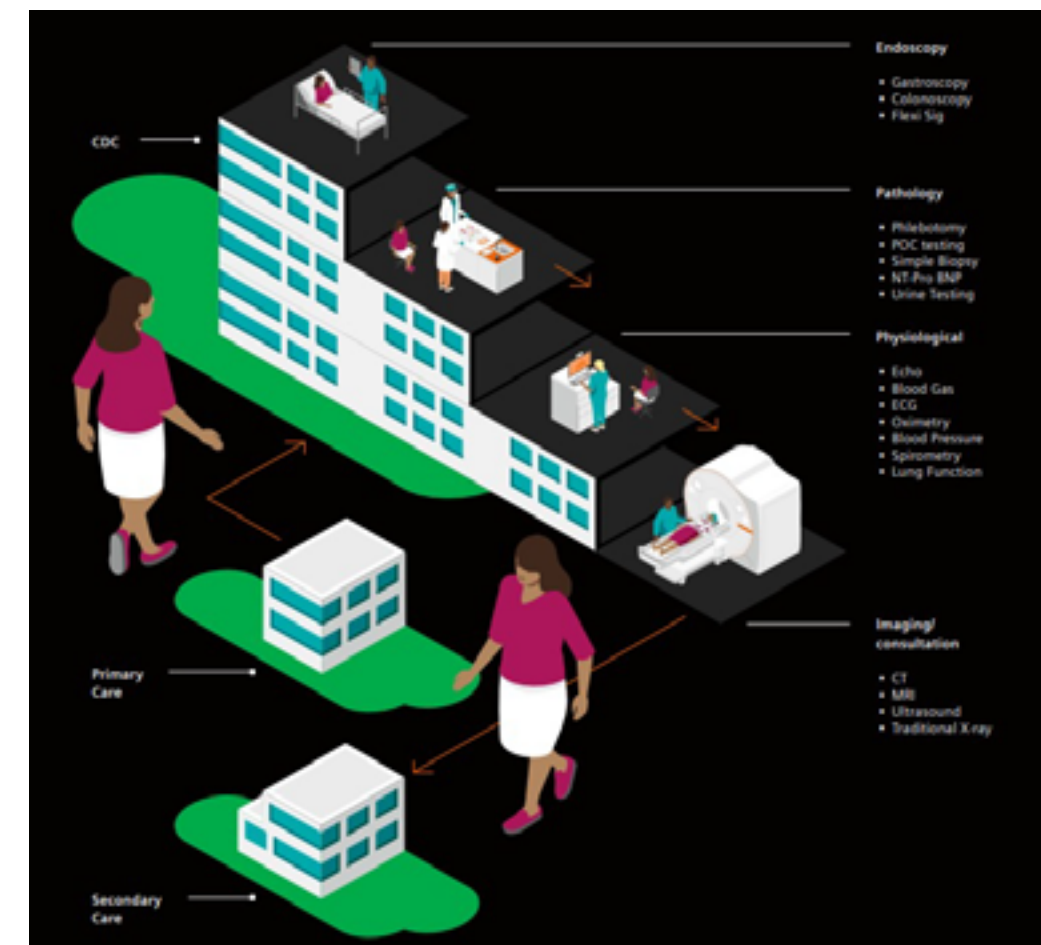
Multiple tests in the community
 Mobile CT

- **Breast Screening**

Mobile Mammography
 Refer into hospital sites



Fonte: siemens-healthineers.com/insights-series



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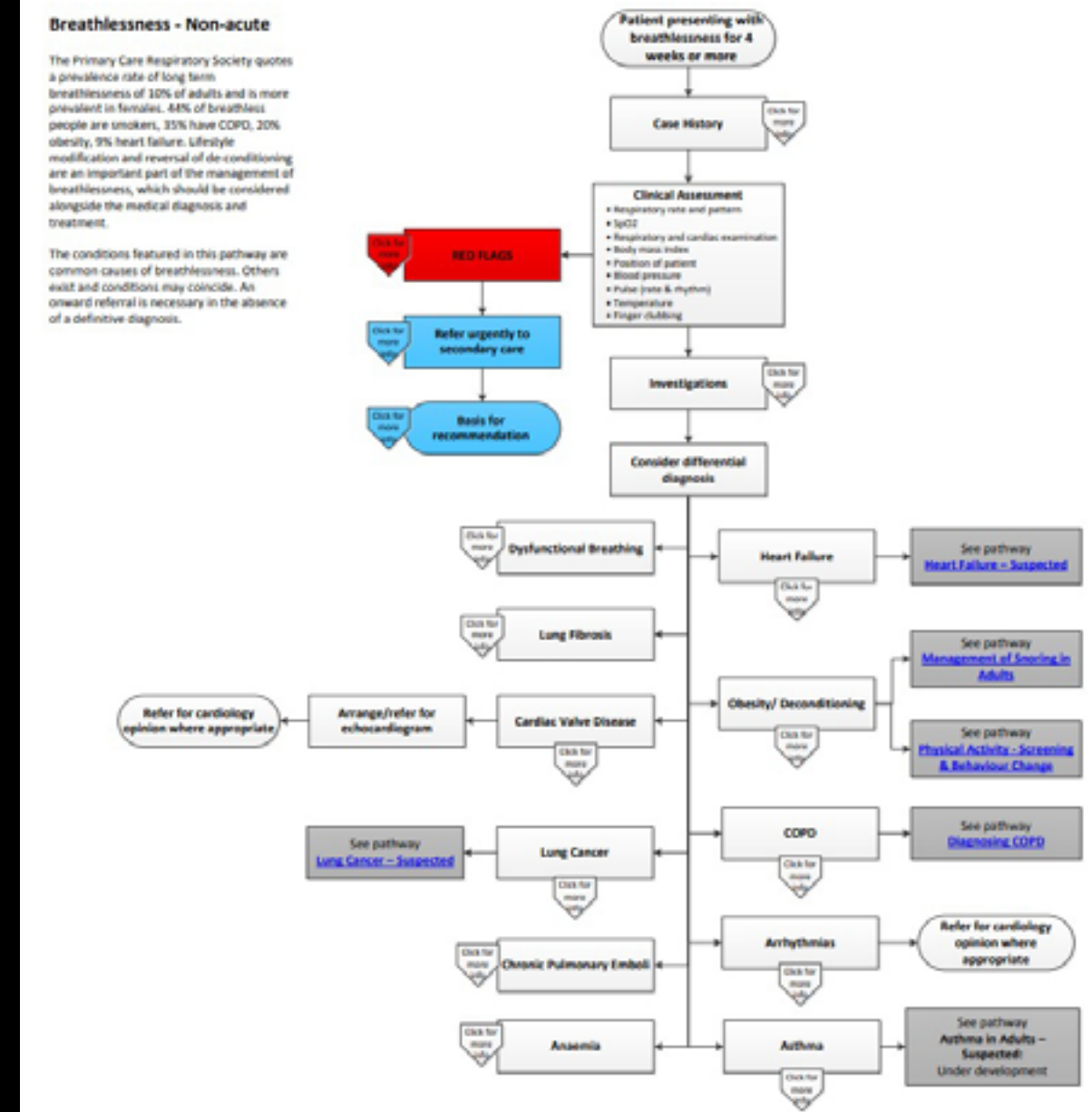
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Value Partnership – Clinical Pathway Improvements

- What could be delivered
 - Transformation of pathways
 - Breathlessness
 - Lung Cancer
 - Prostate Cancer
 - Improved patient experience and outcomes
 - Considered utilisation of diagnostic capacity





Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway



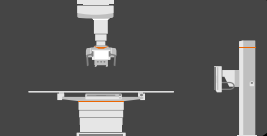


Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway

Patient referred for chest X-ray



Ysio X.pree auto positions



Radiographer exposes



AI Rad Companion highlights lesion



Patient referred to CT whilst in the department



Ultra low dose CT performed



AI Rad Companion highlights lesion

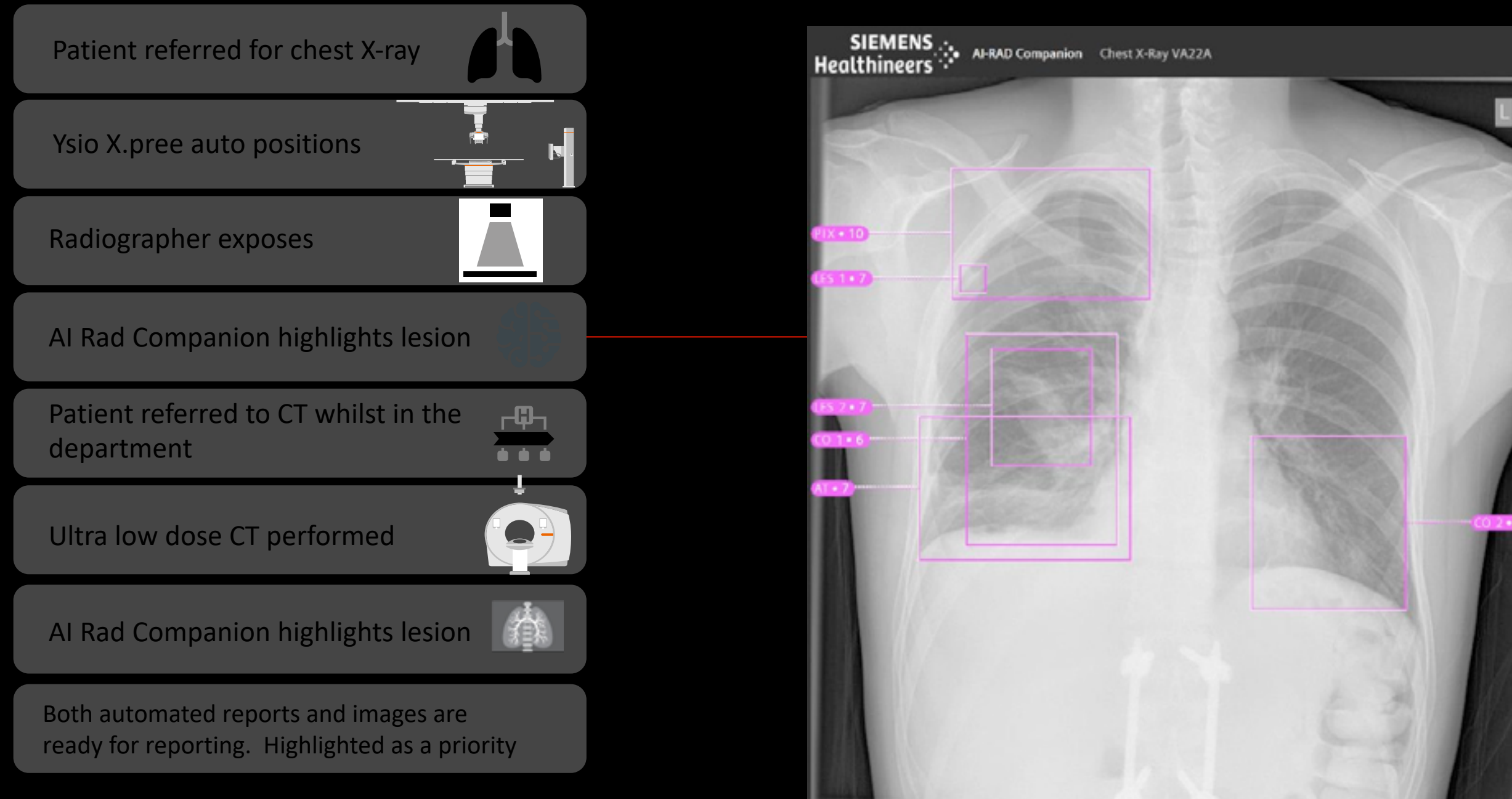


Both automated reports and images are ready for reporting. Highlighted as a priority





Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway






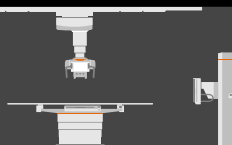
Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway

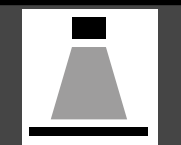






Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway


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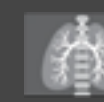
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Radiographer exposes 

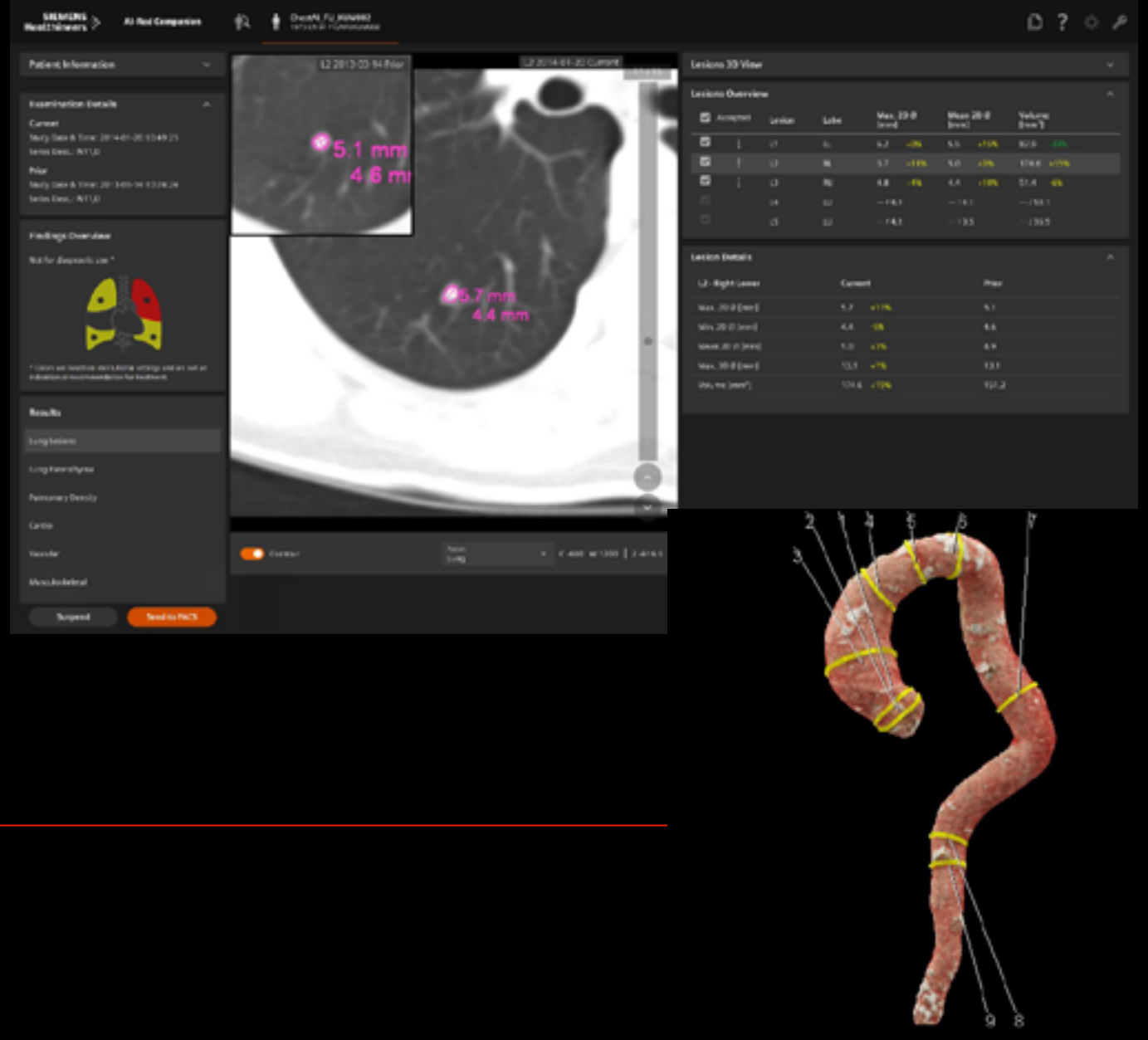
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The screenshot shows the AI Rad Companion interface. On the left, there's a 'Patient Information' section with fields for Name, Date of Birth, and Sex. Below that is a 'Findings Overview' section with a 'Risk for Diagnosis' indicator. The main area displays a CT scan slice with three lesions highlighted in pink and labeled with their sizes: 5.1 mm, 4.6 mm, and 5.7 mm. To the right, there's a 'Lesions 3D View' table and a 'Lesions Details' section. At the bottom right, there's a 3D reconstruction of the colon with several yellow bands highlighting specific areas.

Segment	Lesion	Size	Max. SD-0 (mm)	Min. SD-0 (mm)	Volume (cc)
1	17	5.1	4.2	5.7	8.19
1	18	4.6	3.7	4.8	3.64
1	19	5.7	4.8	6.6	10.4

Segment	Lesion	Current	Mean
1	17	5.1	5.1
1	18	4.6	4.6
1	19	5.7	5.7
1	20	5.1	5.1
1	21	5.1	5.1



Direct Access – Chest X-Ray | Improvement to Lung Cancer Pathway

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Lesions	Lobe	Volume [mm3]	max. Diam. 2D [mm]	max. Diam. 3D [mm]
L1	Left Upper	225,5	10,5	17,8
L2	Left Upper	100,3	10,5	17,8
L3	Right Middle	90,2	10,5	17,8
L4	Left Upper	17,2	9,3	10,5
L5	Left Upper	3,2	5,3	9,7
Tumor Burden			46	

Lung	LAV950 [%]	LAV950 [%]
Whole Lung	20,5	Right Upper Lobe 25,5
Left Upper Lobe	10,5	Right Middle Lobe 38,5
Left Lower Lobe	5,5	Right Lower Lobe 15,5

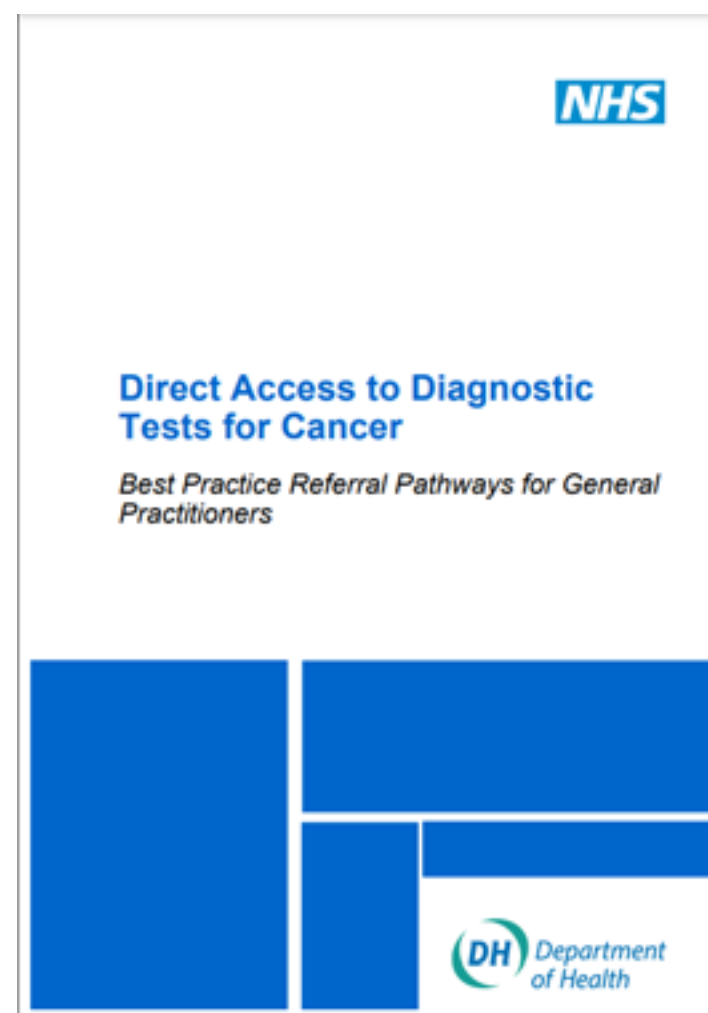
Heart	Heart Volume	883.1 ml
Total Coronary Calcium Volume		70.3 mm ³

Spine	Heights [mm]	Average [HU]	Heights [mm]	Average [HU]
T1	15 13 15	168	T7	19 18 22 128
T2	18 15 17	141	T8	15 13 21 99
T3	19 17 18	136	T9	16 15 21 109
T4	20 16 18	128	T10	21 19 22 105
T5	20 17 20	132	T11	20 20 23 111
T6	20 18 20	129	T12	23 25 25 90
Spine Category *)		IV		

Aorta	max. Diam. [mm]	max. Diam. [mm]
1 Sin. of Vals.	41	6 Prox. Desc. 34
2 Sinot. Jnct.	40	7 Mid Desc. 30
3 Mid. Asc.	41	8 At Diaphr. 29
4 Prox. Arch	37	9 Abd. Aorta 28
5 Mid Arch	36	
Aorta Category		I



Example: Brain MRI



¹R.W. Evans; Headache 57:780-791 (2017)

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A major pain point in Neuro MR
Large inconspicuous procedure volume with severe cost cuts

90 % of headache MRI scans
will not reveal any pathology explaining the headache



Fast imaging is mandatory
to handle the patient volume



¹ R.W. Evans; Headache 87:780-791 (2017)

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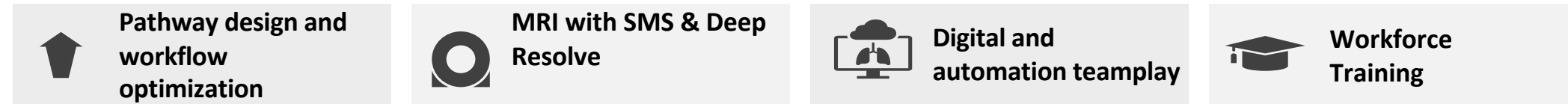
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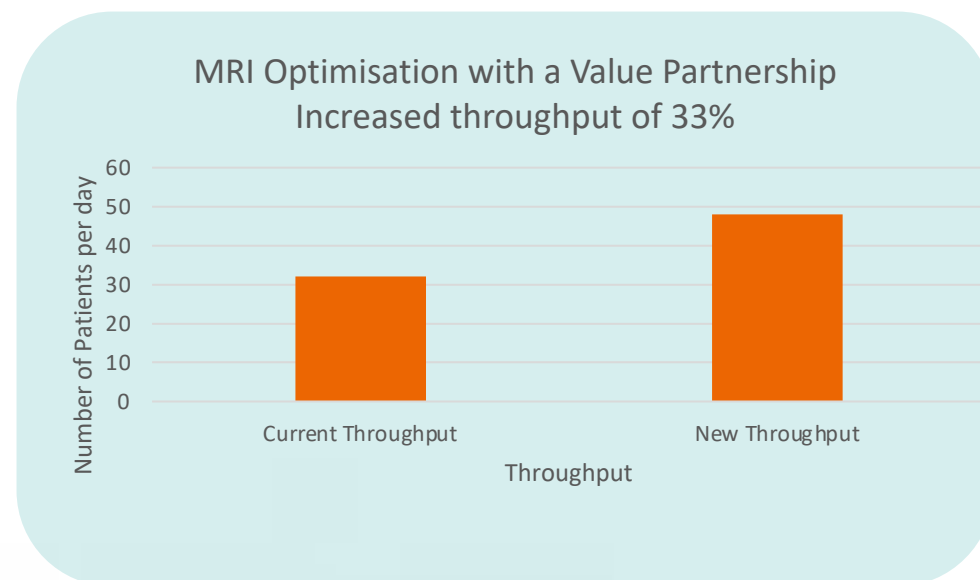


Increased MRI Throughput with Siemens Healthineers Value Partnership

Value Partnership Drivers



of patients per day



Throughput Calculator

Reimbursement (per scan)	Current Throughput	New Throughput
£149.00	32	48
	£4,768	£7,152
Increased daily revenue		£2,384
Increased annual revenue		£870,160
Increased annual revenue fleet x10		£8,701,600

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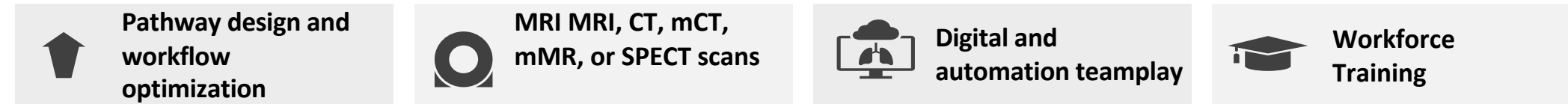


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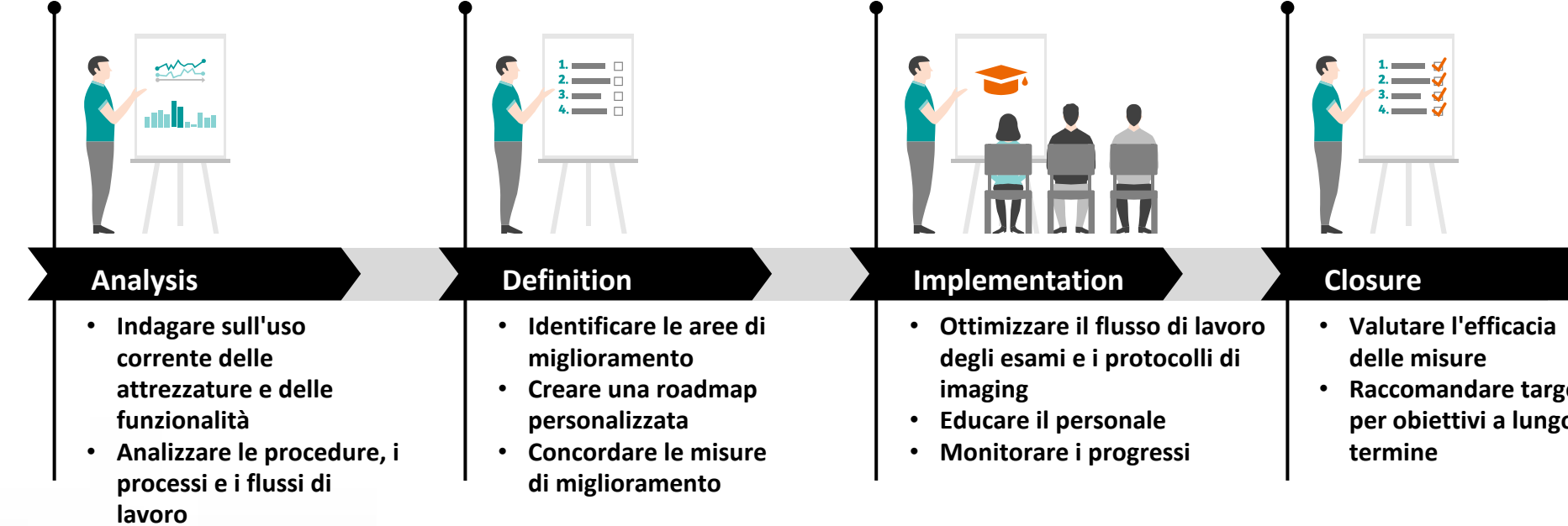
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Nuove applicazioni di Value Partnership

Value Partnership Drivers



Optimization of examination workflow & imaging protocols

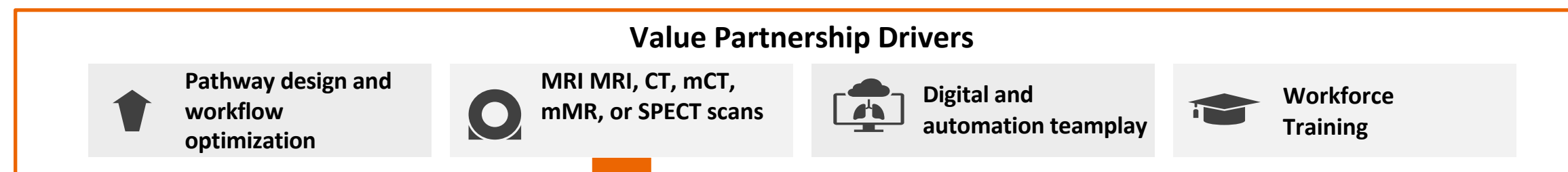


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Nuove applicazioni di Value Partnership



Anytime and from anywhere¹



Share in-house expertise and assist colleagues at the scanner anytime and from anywhere¹ with complex MRI, CT, mCT, mMR, or SPECT scans

syngo Virtual Cockpit consente a tecnici esperti del proprio network di gestire la propria flotta di scanner o fornire assistenza completa per la scansione ai colleghi, indipendentemente dalla loro posizione fisica.

Core features

- Condivisione della conoscenza in tempo reale
- Funzioni video, audio e chat dal vivo
- Collaborazione simultanea fino a tre postazioni di scansione contemporanee

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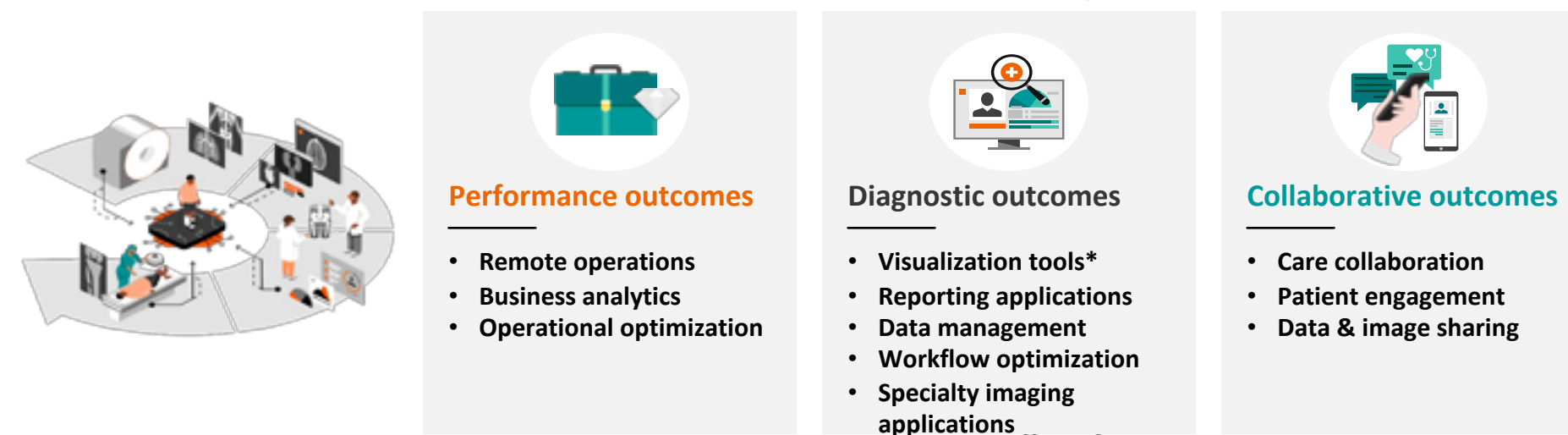
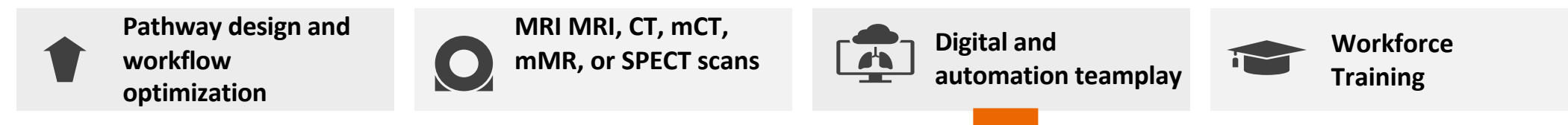
syngo Virtual Cockpit is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Precondition: Expert-i enabled modality from Siemens Healthineers and appropriately trained personnel operating under applicable federal, state, and local laws as to the specific imaging modality(ies), including radiation and contrast.
¹ Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data privacy regulations.



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Nuove applicazioni di Value Partnership

Value Partnership Drivers



Outcome Driven Imaging & Information System

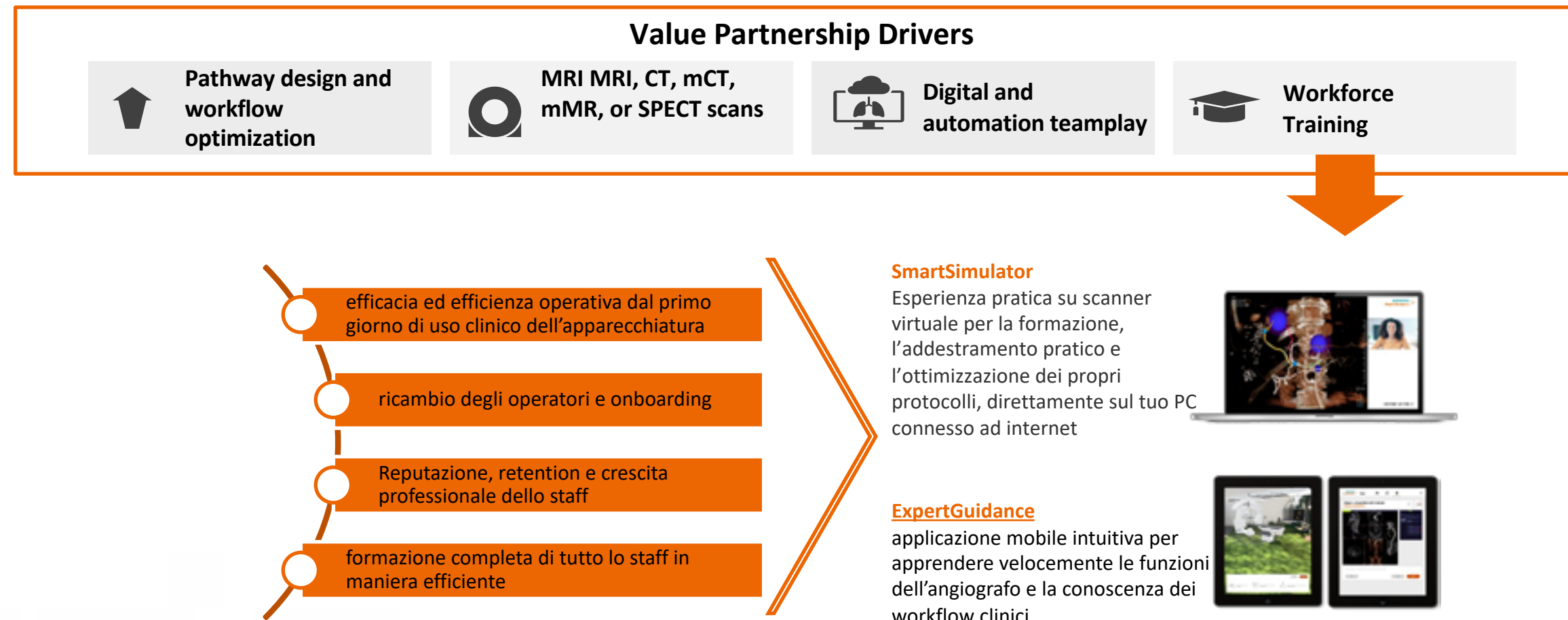
- Connect (data, people, knowledge)
- Build (services, applications)
- Scale (innovations, clinical advancement)

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Nuove applicazioni di Value Partnership



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Delitti in materia di violazione del diritto d'autore (Art. 25-novies, D.Lgs. n. 231/2001) [articolo aggiunto dalla L. n. 99/2009]

- Messa a disposizione del pubblico, in un sistema di reti telematiche, mediante connessioni di qualsiasi genere, di un'opera dell'ingegno protetta, o di parte di essa (art. 171, legge n.633/1941 comma 1 lett. a) bis)
- Reati di cui al punto precedente commessi su opere altrui non destinate alla pubblicazione qualora ne risulti offeso l'onore o la reputazione (art. 171, legge n.633/1941 comma 3)
- Abusiva duplicazione, per trarne profitto, di programmi per elaboratore; importazione, distribuzione, vendita o detenzione a scopo commerciale o imprenditoriale o concessione in locazione di programmi contenuti in supporti non contrassegnati dalla SIAE; predisposizione di mezzi per rimuovere o eludere i dispositivi di protezione di programmi per elaboratori (art. 171-bis legge n.633/1941 comma 1)
- Riproduzione, trasferimento su altro supporto, distribuzione, comunicazione, presentazione o dimostrazione in pubblico, del contenuto di una banca dati; estrazione o reimpiego della banca dati; distribuzione, vendita o concessione in locazione di banche di dati (art. 171-bis legge n.633/1941 comma 2)
- Abusiva duplicazione, riproduzione, trasmissione o diffusione in pubblico con qualsiasi procedimento, in tutto o in parte, di opere dell'ingegno destinate al circuito televisivo, cinematografico, della vendita o del noleggio di dischi, nastri o supporti analoghi o ogni altro supporto contenente fonogrammi o videogrammi di opere musicali, cinematografiche o audiovisive assimilate o sequenze di immagini in movimento; opere letterarie, drammatiche, scientifiche o didattiche, musicali o drammatico musicali, multimediali, anche se inserite in opere collettive o composite o banche dati; riproduzione, duplicazione, trasmissione o diffusione abusiva, vendita o commercio, cessione a qualsiasi titolo o importazione abusiva di oltre cinquanta copie o esemplari di opere tutelate dal diritto d'autore e da diritti connessi; immissione in un sistema di reti telematiche, mediante connessioni di qualsiasi genere, di un'opera dell'ingegno protetta dal diritto d'autore, o parte di essa (art. 171-ter legge n.633/1941)
- Mancata comunicazione alla SIAE dei dati di identificazione dei supporti non soggetti al contrassegno o falsa dichiarazione (art. 171-septies legge n.633/1941)
- Fraudolenta produzione, vendita, importazione, promozione, installazione, modifica, utilizzo per uso pubblico e privato di apparati o parti di apparati atti alla decodificazione di trasmissioni audiovisive ad accesso condizionato effettuate via etere, via satellite, via cavo, in forma sia analogica sia digitale (art. 171-octies legge n.633/1941).

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