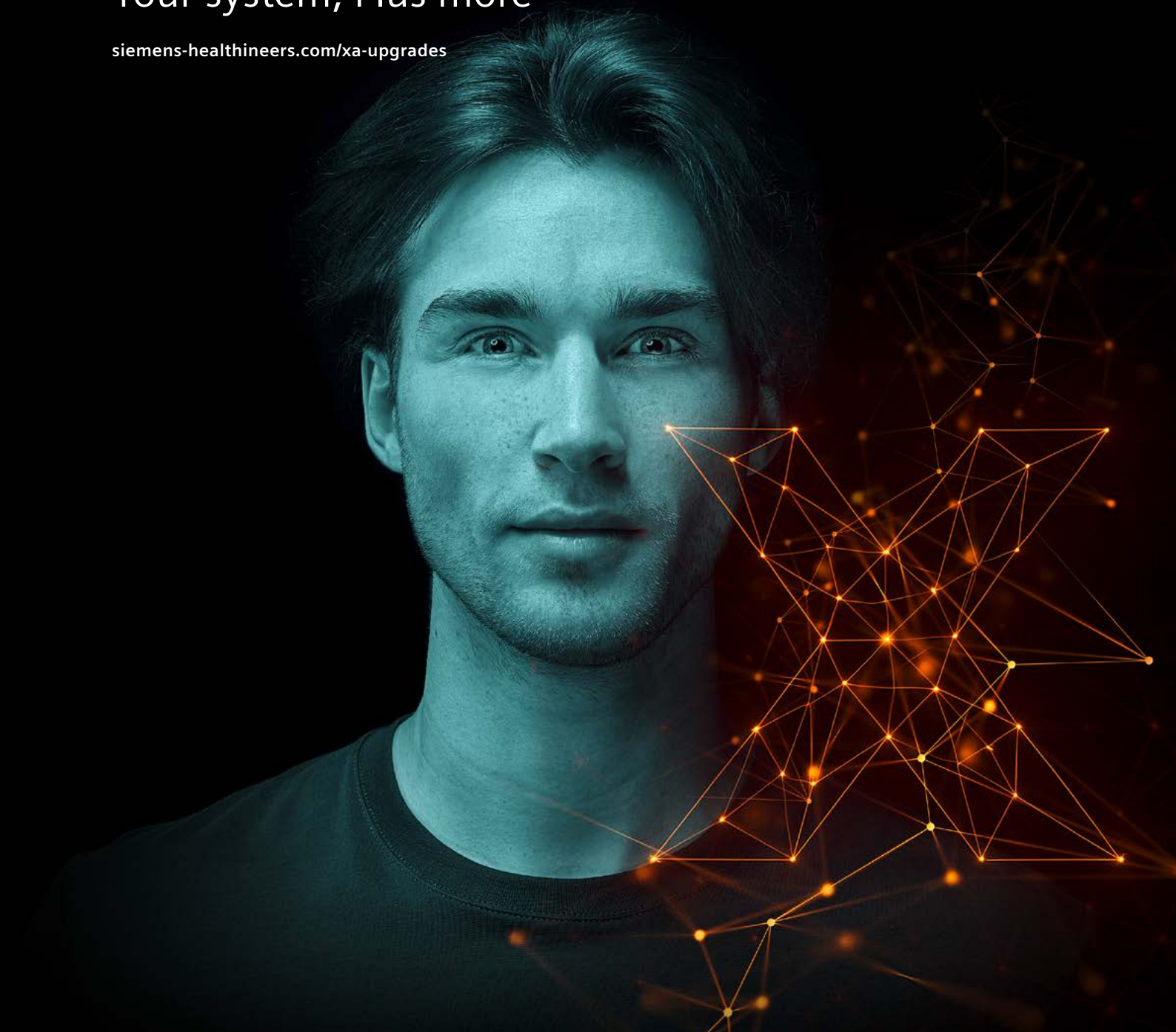


XA Upgrades

Your system, Plus more

siemens-healthineers.com/xa-upgrades



Your system, Plus more.

Clinical imaging is evolving and demanding more from your MRI system every day.

Whether you're looking to increase patient throughput, advance into more complex clinical imaging, improve the scanning experience for staff and patients, or make a forward-thinking, sustainable investment, the **XA Upgrade** is designed for you.



**Major trends
challenging
MRI departments**



5%

Growth in imaging demands every year¹ and growth in indications for scanning advanced CMR²



up to **30%**
Drop in reimbursement
in just 5 years³



18,000,000
Shortfall in healthcare
professionals⁴



80%
of radiology department
prioritize cutting
MRI's carbon footprint⁵

Smart – intelligent tools to match your workflows

As staff numbers fall in healthcare, the demands are ever increasing. To support MRI staff in their daily work and to help meet radiologists' expectations, XA Upgrades feature myExam Companion. An AI-supported guidance feature helping operators throughout the MRI workflow by driving consistency and aiming to improve image quality.

40%

of total MRI utilization
is spent **not** scanning.⁶

90%

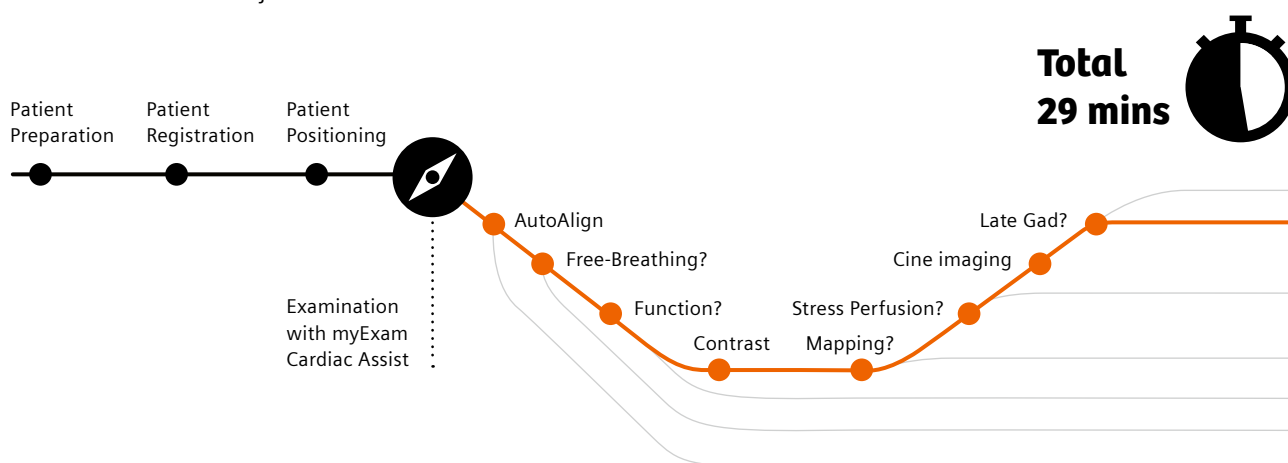
Of MRI Exam requests are
covered by myExam Assists.⁷



Automated workflows for the most complex of examinations

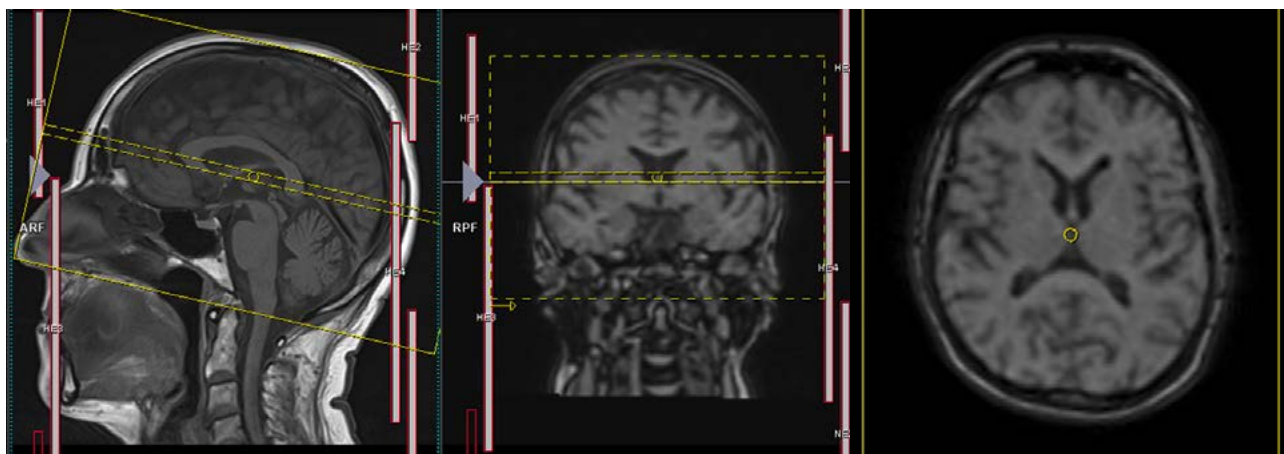
myExam Cardiac Assist leverages automation and intelligence to aid in the planning of all cardiac views, ensuring standardized, reproducible cardiac MRI scans. By offering step-by-step guidance the workflow can be simplified allowing for comprehensive cardiac MRI examinations in under just 30 mins.

In combination with **Compressed Sensing Cardiac Cine** we can break through barriers of breath hold capacity to allow as many patients as possible the ability to undergo the gold standard in cardiac imaging.



Assistive features to focus on imaging

Supporting in routine tasks myExam Assist allow you to have custom built strategies helping to decrease scan slot times by as much as 10 minutes⁷ and reduce parameter adjustments by 46%.⁸



myExam Assist includes features such as AutoCenter, AutoPosition and AutoLabelling aiming to reduce parameter adjustments and save time.

Flexible – performance to match your daily demands

MRI indications and case referrals continue to rise and institutions are expected to handle growing patient volumes, often without the addition of a new scanner. XA Upgrades feature Deep Resolve, which empowers you to meet this demand using your existing equipment. With up to 60% faster scan times⁹ and improved image quality, Deep Resolve enables the delivery, efficiency and flexibility your staff needs for smooth, day-to-day operations.



“We saw a 60% increase in the number of patients we were able to scan in less than 20 minutes using Deep Resolve ... it’s actually revolutionary”⁸

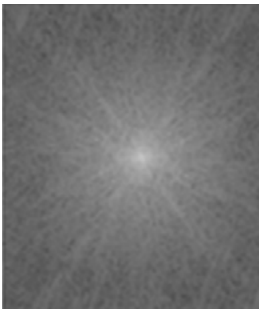
Cynthia Grogan, Imaging Director, Atrium Health Wake Forest Baptist

AI Powered Super-Resolution

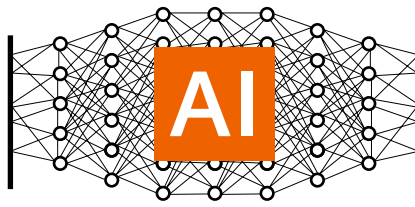
Deep Resolve is at the forefront of the revolution in MRI acceleration. Our advanced algorithms for noise reduction and high-resolution MRI are specifically tailored for maximum productivity. Deep Resolve delivers our fastest MRI, delivering images of extraordinary clarity, higher clinical productivity, and a better patient experience.

» Explore clinical images from the MAGNETOM portfolio with Deep Resolve

Raw data input



Low-res reconstruction



High-res reconstruction



Increased patient throughput with higher patient and staff satisfaction.

With the optimal layout, equipment and Deep Resolve findings from workflow simulations show.

With evidence that staff report higher rates of job satisfaction.



2x patient throughput



6 MRI scans/h9



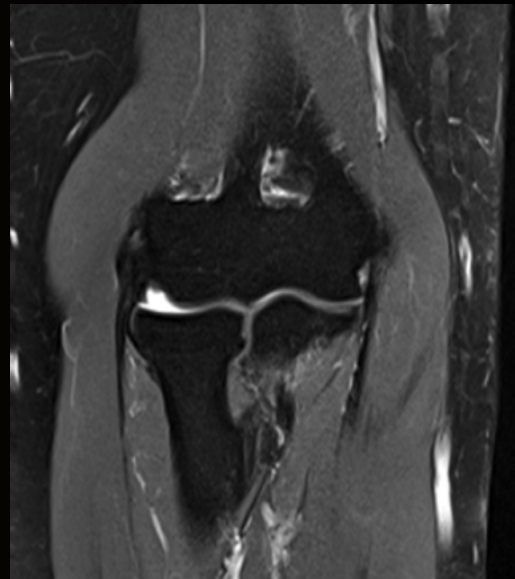
Same staff utilization

The ultimate combination for speed and quality

See how Deep Resolve, Simultaneous Multi-Slice and the UltraFlex 18, all features of an XA Upgrade, are your ultimate combination for unparalleled speed and image quality with up to an 84% reduction in scan time⁹ and increase in image quality.



Flex 4
T1 FS TSE, 0.3 x 0.3 x 3.0 mm³
TA 4:10 mins

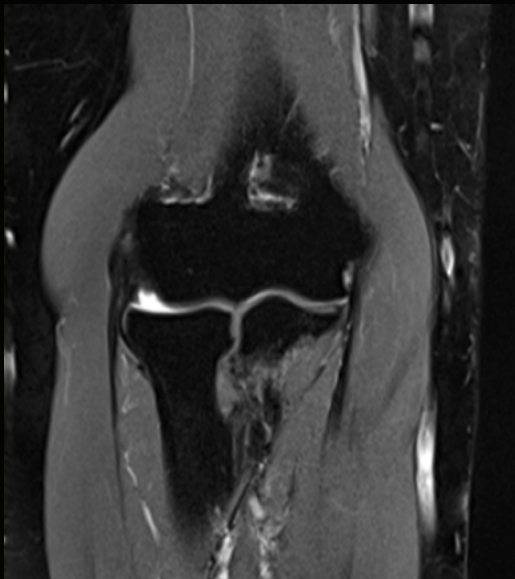


UltraFlex 18
T1 FS TSE
PAT 2, 0.3 x 0.3 x 3.0 mm³
TA 2:12 mins

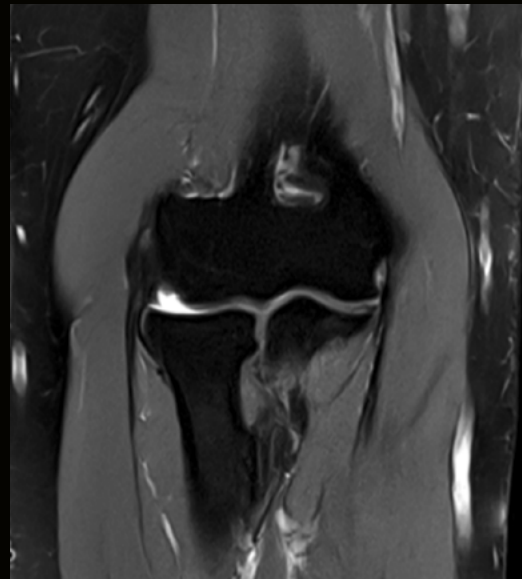
UltraFlex 18 Coils

UltraFlex 18 Large and Small coils are very flexible multi-purpose coils that can be used for high-resolution imaging for body parts including the elbow, unilateral hip, foot/ankle, hand/wrist or small FOV imaging in the body.





UltraFlex 18
T1 FS TSE
PAT 3, **SMS 2**, 0.3 x 0.3 x 3.0 mm3
TA 1:22 mins



UltraFlex 18
T1 FS TSE
PAT 4, SMS 2, **Deep Resolve**
0.2 x 0.2 x 3.0 mm3 , TA 0:38 mins

Study ID: 1aaaa1548,
Images from MAGNETOM Aera

Simultaneous Multi-Slice

Simultaneous Multi-Slice (SMS) is a paradigm shift in MRI. SMS can be seamlessly combined with conventional parallel imaging, enabling additional scan time reductions as a factor of slice acceleration.



Deep Resolve

Deep Resolves' advanced algorithms for noise reduction and high-resolution MRI are specifically tailored for maximum productivity. And when combined with Siemens Healthineers premium hardware, Deep Resolve unleashes its full potential and redefines the boundaries of MRI.

Economical – a smart investment to match your goals

When investing in your MRI system, there is more to consider than just the upfront equipment cost. With XA Upgrades, you gain long-term value through reduced lifecycle expenses, expanded reimbursement potential, and the advantages of a seamlessly connected fleet.

12%

Power consumption
reduction using
Eco Power Mode⁹

Improvements in energy efficiency and sustainability

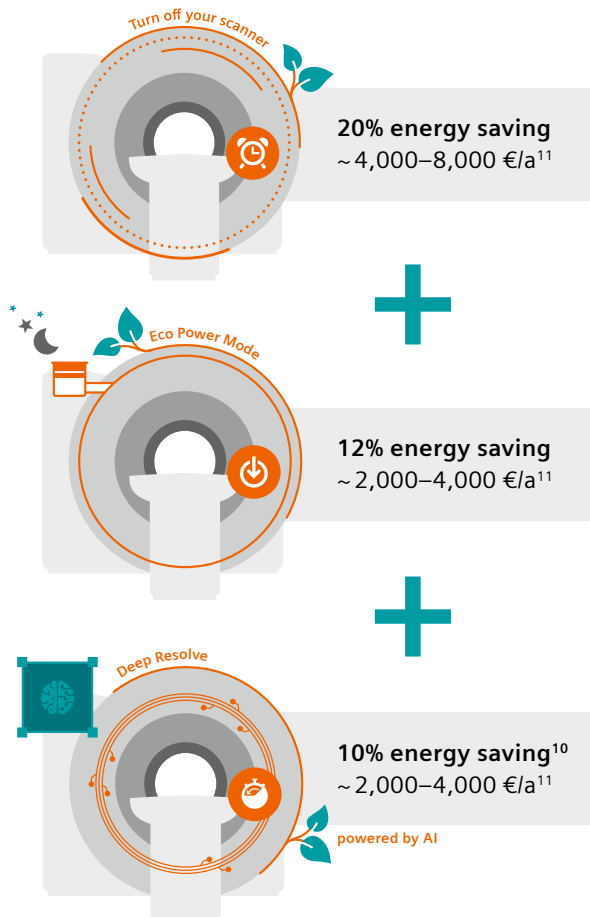
To actively manage the environmental footprint of your existing system. XA Upgrades enable the activation of Eco Power Mode to reduce the energy consumption of your system when it is turned off.



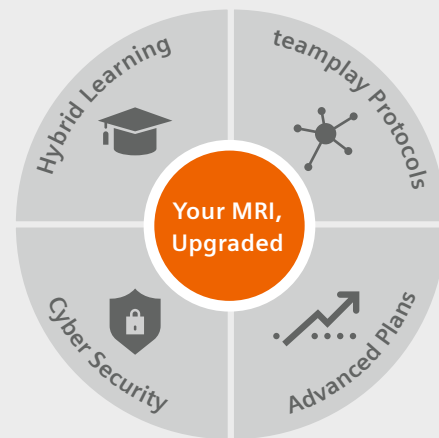
Maximized impact, minimized cost

XA Upgrades are your smartest investment for getting more out of your existing MRI system. It offers exceptional value for money by providing access to the latest software innovations – without the need for costly construction, extended downtime, or a full system replacement.

With XA Upgrades, you can drive MRI growth efficiently and sustainably. It's the most future-ready step you can take: enhancing clinical capabilities, improving operational efficiency, and extending the life of your system.



More connectedness, greater standardization, stronger security



Keep your MRI systems running at their best, with fewer interruptions and more protection. Hybrid Learning helps staff build skills faster, while teamplay Protocols make it easy to share and standardize workflows across your fleet. Advanced Plans keep your systems current with the latest innovations, and built-in **Windows 10 IoT Enterprise security safeguards** your data.

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¹ <https://www.diagnosticsimaging.com/view/are-we-prepared-for-a-looming-radiologist-shortage>

² IMV report 2023

³ Medicare Physician Fee Schedule 2018, estimated national average for CPT Code 70551 MRI Brainstem without Dye.

⁴ Darzi, A. · Evans, T. The global shortage of health workers – an opportunity to transform care Lancet. 2016; 388:2576-2577

⁵ Roletto et al., The environmental impact of energy consumption and carbon emissions in radiology departments: a systematic review (2024)

⁶ Kevin Baker et al. Optimizing MRO Logistics: Prospective Analysis of Performance, Efficiency, and Patient throughput.

⁷ Siemens Healthineers usability of 75.1 million MRI examinations in 2018

⁸ The statements by Siemens Healthineers customers described herein are based on results that were achieved in the customer's unique setting. Since there is no 'typical' hospital and many variables exist (e.g., hospital size, case mix) there can be no guarantee that other customers will achieve the same results.

⁹ Data on file

¹⁰ Values are computed for a MAGNETOM Sola system are for illustrative purposes only. Data from Siemens Healthineers own measurements. Actual consumption may vary depending on use pattern, system type and configuration.

¹¹ Financial values based on Energy costs from the "Quarterly Report on European electricity markets", Volume 15, third quarter 2023, from the European Commission. Estimates generated for a price range of 0.2-0.4 €/kWh.

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