



Jonathan Sammut – Deputy CIO & Head of Digital Intelligence & Analytics





Who we are

- We serve more than seven million people across approximately 5,400 square miles – the communities of Cumbria, Lancashire, Greater Manchester, Merseyside, Cheshire and Glossop (Derbyshire).
- We receive approximately 1.3 million 999 calls and respond to over a million emergency incidents each year.
- We make 1.5 million patient transport journeys every year for those who require non-emergency transport to and from healthcare appointments.
- We deliver the NHS 111 service across the region for people who need medical help or advice, handling more than 1.5 million calls every year.
- We employ around 6,300 staff in over 300 different roles and we have over 1,000 emergency and non-emergency vehicles operating across the North West.



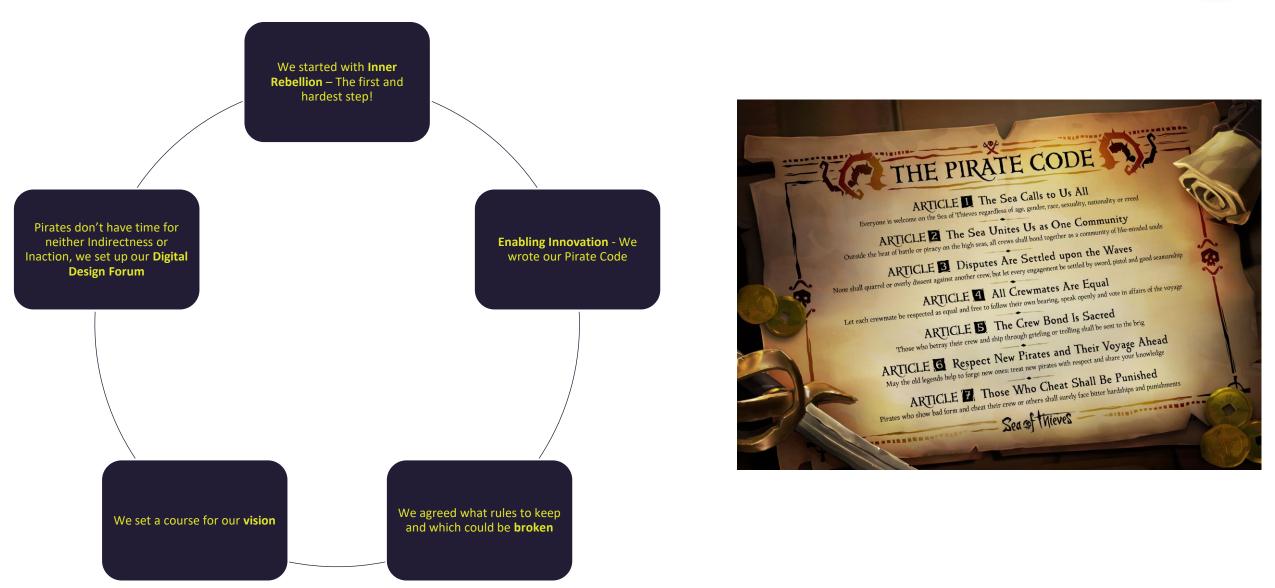


PIRATES DIDN'T SET OUT To change the world

They set out to change THEIR

Our 'Be More Pirate' movement





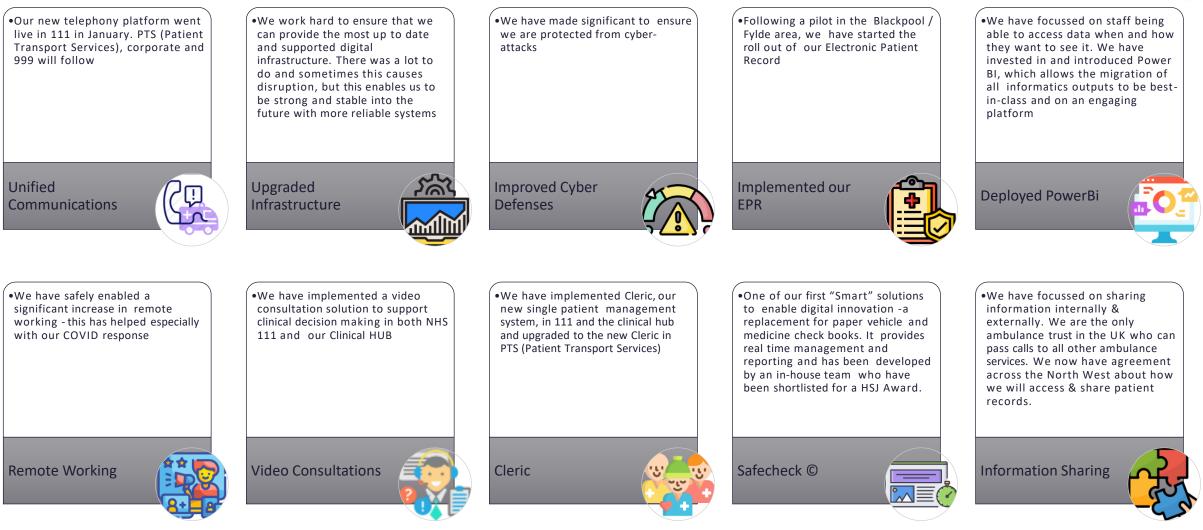
Our Vision



Our aim is to use digital solutions to radically improve how we meet the needs of patients and staff; every time.		Solving everyday problems	Getting the basics right Staff experience Patient experience Personal safety Digital skills Listen, test and learn	
		Our digital journey	'Digital first' culture Leadership and governance Operating model Integrated organisational approach Digital partnerships	
		Secure and joined-up systems	System integration and interoperability Privacy and cyber security Cloud and Edge Open standards Core business platforms Proactive risk and renewal	
	\sim	Smarter decisions	Better data Better access Better insight Better collaboration Better operating procedures	
		Digital pioneers	Preventing harm from deterioration Innovation partnerships Cultivating innovation Rapid deployment of innovation	_

Some of our current Treasures





Our Future Voyages





Robotic Process Automation (RPA)

- We are working with the other trusts of the NAA (Northern Ambulance Alliance) to establish an RPA capability
- The business case has been approved by the 4 NAA trusts and early scoping/design work us underway
- Blue Prism selected as our RPA technical partners
- There are numerous manual processes across the trusts, which we will aim to deploy RPA onto

Artificial Intelligence & Machine Learning

- Initial scoping work with NHSx to establish AI/ML proof of concept

- The initial project would look to deploy AI using our Data, in order to risk stratify and secondary triage 999 and 111 calls
- This is currently a manual process and improvement here would really help the patient, especially when every second counts





Drone Capability

- Initial scope will be evaluating state-of-the-art drone capability through simulation/proof of concept flights
- The aim of the project is to delivery drone capability on 3 use cases:
 - Delivery of an AED (automated external defibrillator) on scene for cardiac arrests in rural areas
 - Delivery of life saving medication, such as an Epinephrine Auto-Injector (EpiPen) on scene in rural areas
 - Scene surveillance, this may include hard to reach areas (e.g. forests) or dangerous areas (fires/chemical/water), providing real-time intelligence for our dispatch team and live route mapping whilst in-flight
- Simulation work will commence with our Partners, AVY and SkyPorts, through ongoing support from NHS E/I

Our Future Voyages (2)



Natural Language Processing (NLP)

- A recent deep-dive analytics spring highlighted an opportunity to use NLP in our live emergency calls
- Real time NLP will identify language and tone markers in emergency situations, such as immediate mental health crisis
- NLP will then be able to either inform the call handler or automatically dispatch a resource if appropriate



Scale-up of "Smart" Stations

- Several key initiatives have already been trialled in some stations, these include:

- Smart Lighting

- Digital Wallboards

- Access Control

- Digital Key Cabinets

- Through funding via the NHSx Unified Tech Fund, we are able to now expand some of these innovations



One NWAS – One North West

- Working with NHS E/I North to implement initiatives such as shared care records and integrations with EDs
- Development and deployment of single patient flags (e.g. violence & aggressions markers across our 999 and 111 systems)
- Interoperability (mission interop), an internal group created to keep up the momentum of all our interoperability initiatives

What 'Small Bold Actions' can you take, to change YOUR world?

Thank you!

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