

## Evolving from Fixed to Flexible – empowering teams to innovate through customisable software (Adapting existing off-the-shelf software for any physical asset)

AMX Solutions originally developed a fully-fledged off the shelf Bridge Management System which was designed to meet UK Bridge Management standards and processes.

Drivers for change were:

- Increasing customer requests for system changes and personalisation
- Limitations on specific sets of asset types preventing scalability
- International customer requiring system translation
- Future development for Web and Mobile platforms

Due to the number of customer requests to customise the BMX system, the decision was taken to rebuild BMX from the ground up to include greater flexibility and provide a platform whereby customers can customise the system to cater for their exact needs. This philosophy has put the customer in the driving seat to manage their own system customisations to align AMX precisely with their unique framework requirements.

A client has recently stated that: “Rather than taking a back-seat in a chauffeur driven car on a pre-planned route, using AMX means you can take the driving seat and change course and add modifications whenever you choose.”

### What having a customisable solution means for a Bridge Engineer:

At its core, the AMX system is fully compliant and functional for carrying out all the required processes associated with Bridge Management, such as inventory capture, inspections and maintenance. Any new data fields, classifications or metrics added to AMX can propagate throughout the system for inclusion into dashboards, reports, mobile working, KPI's or relevant workflow.

### Customisable software enables users to:

- Generate their own reports rather than standardised ones, at any point

For example: Request a list of bridges with a surface area greater than 500sqm, built since 2000, inspected by Joe Bloggs with a condition score of less than 10.

- Create new asset classifications

In certain organisations, bridge teams may also be responsible for other non-standard asset types such as Cattle Grids, Fords etc. which others are not. Customisation means that these new local classifications can be created quickly and easily and all relevant associated data fields populated and interlinked at the same time.

- Design unique proformas for specific inspections

This feature has certainly been helpful to international clients who may base their inspections on UK methodology but have additional criterion or influencing factors that differ from the UK.

## Customisation facilitates innovation

Not only does customisation help put the user in the driving seat, it also facilitates opportunities for scale and innovation. Core workflow can be established for systems and processes not within the Bridge Management framework and extended to other infrastructure and physical asset management process and even non-asset related ones.

## Some examples of users that have innovated within their teams:

### Cardiff

Expanded the AMX system across the entire infrastructure team to include Footway networks/Pay & Display Machines/Streetworks/Street Lighting/Highway Safety Inspections/PROW/Patching Programmes/LEAMS (Local Environmental Audit & Management) Inspections.

### Canada

A consulting engineering company completes inspections on behalf of different municipalities. Each uses a different methodology to carry out these inspections and AMX allows these regional differences to be collated, analysed and reported on within the same system.

### Malaysia

A concession to manage a 24km new build bridge, was initially looking to buy 6 different management systems for Bridge, Highway, M&E, Building, Landscape and Accident/Incidents. AMX was versatile enough to adapt to include all of these different sectors and manage all relevant asset maintenance and works programmes.