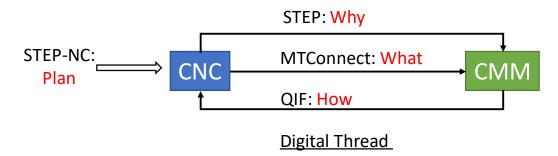
## Build Anywhere Challenge at IMTS 2018

In order to demonstrate that the digital thread enables "build anywhere", we are asking IMTS vendors to participate in the following challenges.

- 1. <u>Measure Anywhere</u>: add dimensions and tolerances to a part you are already planning to machine so that we can validate it is meeting its tolerances using a CMM.
- 2. <u>Machine Anywhere</u>: machine a part to be supplied by us so that we can validate it is meeting its tolerances using a touch probe.
- 3. <u>Manufacture Anywhere</u>: machine a test part that will be released on the day of the challenge so that we can validate it is meeting its tolerances using a digital twin.



In each challenge, we will make a STEP file containing design tolerances, and return a QIF file describing how well the part has met those tolerances.

For the first challenge, you can connect your CNC to a CMM using sneaker net. For the second challenge, your CNC will need a touch probe that can be connected to a CMM server using MTConnect. For the third challenge, your CNC will be connected to a digital twin server using a high speed MTConnect.

For the first challenge, you can use any machining solution. For the second challenge, we will provide optional machining solutions for different tooling configurations in a STEP-NC file. For the third challenge, we will ask you to use one of the STEP-NC machining solutions we release on the day of the show.

## Schedule (July 2017 to November 2018)

- Month 1 endorsement of standards groups
- Month 2 endorsement of challenge sponsors
- Month 3, 4, 5 presentations to interested parties
- Months 6 to 12 rehearsals at test sites
- Month 14 & 16 IMTS and JIMTOF