



VMI



VIET NAM

PTB project “Metrology for Digital Transformation – International Cooperation” CABUREK Global Program

Working Group: **WG2 - Digital Calibration Certificates**

National project title: **Digitizing Calibration Certificate with Digital Signature and QR code**

National Metrology Institute: **Vietnam Metrology Institute (VMI)**

Coach: **CENAM, INTI, PTB**

NEEDS ASSESSMENT

- ❖ Every year, we issue about 18,000 calibration certificates
- ❖ To manage the certificates we need a minimum of 2 staffs
- ❖ Difficulty in looking up data of issued certificates
- ❖ Easily lost or damaged

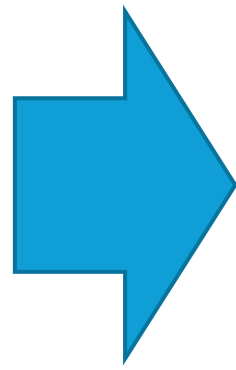
INTRODUCTION

Transition certificate publication from paper-based to e-certificates

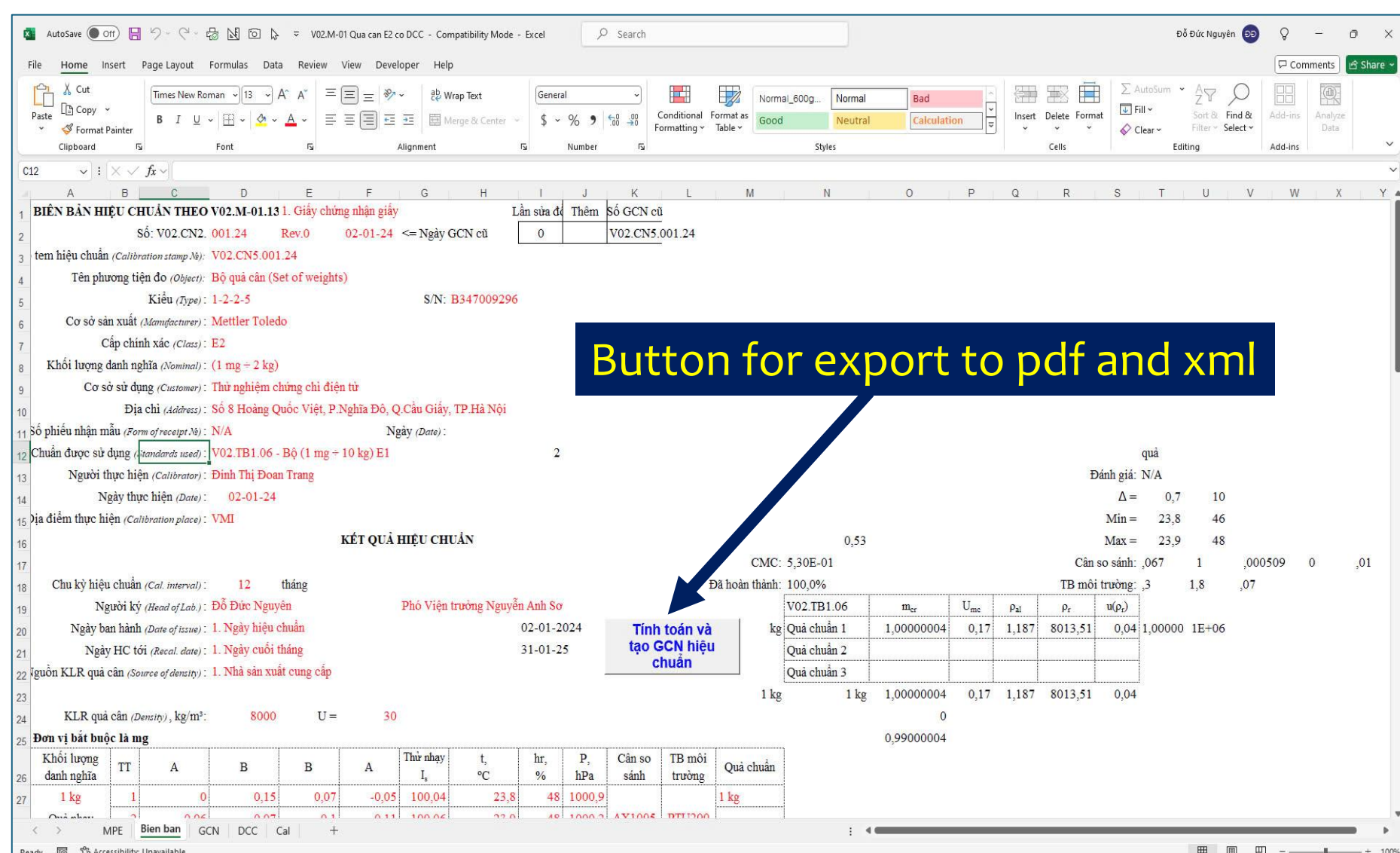


RESULTS

Deployment for Mass measurement



Tool for generation e-certificates/ DCC by MS Excel



5th CABUREK-M4DT-IC Workshop
Bangkok, Thailand
November 17th to 20th, 2025

OBJECTIVES

1. Use digital signatures in digitized certificates
2. Generate digital certificate with QR code



Digitizing Calibration Certificate with Digital Signature and QR code

METHODS

- ❖ Identifying Demand
- ❖ SWOT Analysis
- ❖ Workshops/ seminar
- ❖ Seminar for Stakeholders
- ❖ Technical and consult experts

CONCLUSION

- ❖ Converting traditional paper certificates to e-certificates
- ❖ Very feasible to implement at my NIM (VMI) and helping us to save resources for management
- ❖ The first step to prepare for DCC
- ❖ Integrated calibration systems into digital platforms
- ❖ To form a digital quality infrastructure
- ❖ Expanded digital services for businesses
- ❖ Used CABUREK Talks tools to shape strategy and improve communication

REFERENCES

- ❖ PTB Handbook CABUREK
- ❖ M4DT-IC CABUREK Global Program

ACKNOWLEDGEMENTS

We thank PTB and our coach for help and guidance

Thank you