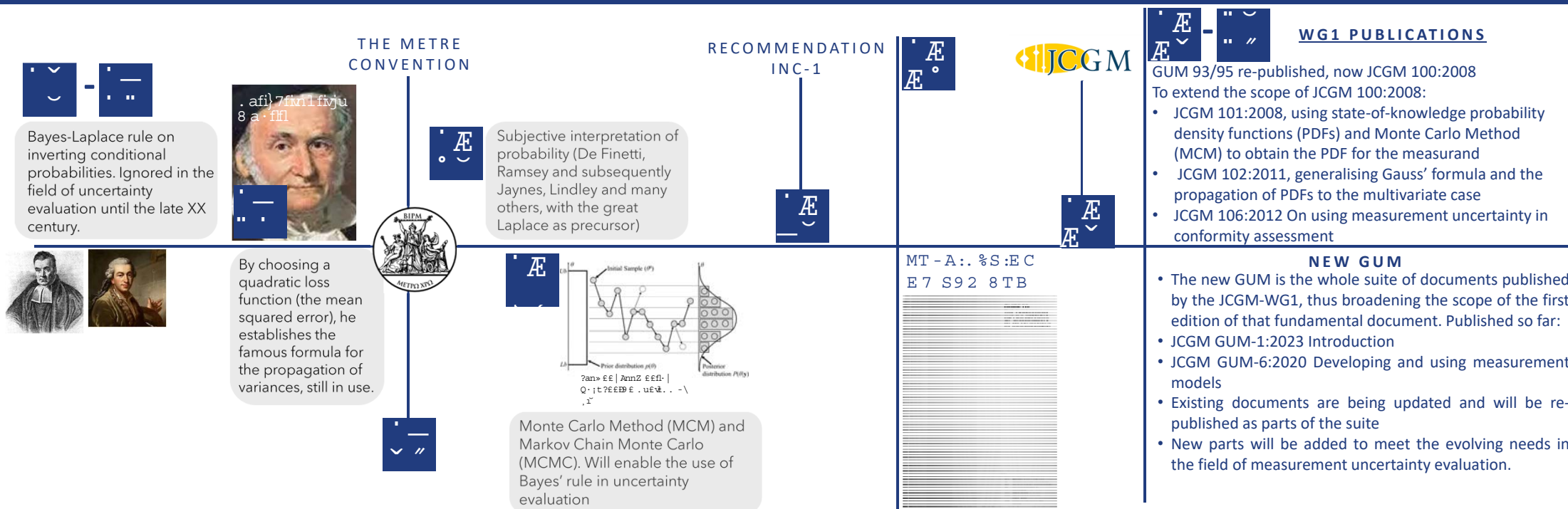


Author: Joint Committee for Guides in Metrology Working Group 1
 Maintenance and promotion of the Guide to the Expression of Uncertainty in Measurement (the GUM)

Corresponding author: Walter Bich w.bich@inrim.it



CURRENT ACTIVITY

- JCGM GUM-5 CD, Examples, is being circulated among JCGM Member Organisations (including NMIs via the BIPM) for comments
- JCGM 101:2008 is being revised in view of its re-publication as JCGM GUM-7
- JCGM GUM-2, Concepts and principles, is under development
- JCGM GUM-10 Least squares methods: a first proposal is under discussion
- A new definition for measurement uncertainty has been proposed by WG1 and discussions are under way with WG2 (VIM) in order to come to an agreed set of definitions concerning measurement uncertainty

CHALLENGES

- To broaden the acceptance and adoption of the GUM principles to various fields, such as meteorology and climate science, in order to enable credible uncertainty for climate data
- To evaluate the uncertainty associated with Artificial Intelligence (AI) outputs, especially AI software that determines clinical diagnosis and prognosis
- To accurately represent measurement uncertainty in the digital transformation
- To support the metrological community in providing valid measurement uncertainties, essential in many applications and in informing decision-makers

Uncertainty is a personal matter; it is not *the* uncertainty but *your* uncertainty.
 Dennis Lindley, *Understanding Uncertainty* (2006)