









Experiences with the current VIM3

- Viewed as the ultimate reference for terminology in metrology
- Language perceived as difficult
- Concept diagrams not readily understandable
- Insufficient support for nominal properties

Annotations to VII Adds further explanation	M3 on to terms and definitions	
C Contents	[VIM3] 1.19 quantity value value of a quantity, value	Options
number and reference together expressing magnitude of a guantit	Σ <u>ν</u>	
Notes Annotations		
ANNOTATION (informative) [3 December 2013] The term "quantity va used expression is the second term, "value of a quantity", or even the t	lue" was chosen as the first (preferred) term in order to take advantage of the adjectival use of a noun in the English third term, "value" (when there is no possible ambiguity or confusion, for example, it is not necessary to write "quantity	h language. However, it is recognized that the more commonly value of a measurand").
Adriaan M.H. van der Veen (VSL)	Developments regarding GUM and VIM	20 November 2019 7 /

Features of the VIM4

- Simplified language
- No concept diagrams
- Electronic (searchable) format
- VIM3 Annotations incorporated (currently 65 available)
- New chapter on nominal properties
- Separate entries for general quantity and individual quantity?
- Definitions of measurement, metrology



JCGM 103 – Developing and using measurement models

- Originally projected as Supplement 3 to the GUM
- Document makes connection to JCGM 100, JCGM 101 and JCGM 102
- Guidance on statistical models more in the spirit of a showcase, rather than directive
- Publication anticipated for 2020



Trends

- Acknowledgement of the limitations of the current JCGM 100:2008
- Will to preserve a legacy (GUM:1995, classical statistics)
- Increasing use of the Monte Carlo method, but still by a (small) minority
- Increasing need for uncertainty evaluations for multiple measurands
- Interest in Bayesian methods, but their adoption still in an infant state







<section-header> Rewrite of the Introduction (JCGM 104) Provides an "entry-level" introduction to measurement uncertainty and suite of documents Minimum set of principles Explains that different problems require different methods for uncertainty evaluation Overview of the application documents Guides readers to the relevant document(s) for their problem







Acknowledgement

Special thanks to Walter Bich (convenor WG1) and Chuck Ehrlich (convenor WG2) and the membership of the working groups for their assistance in preparing this overview.

The opinions expressed in this paper are those of the author and do not necessarily reflect the views of the JCGM WG1 and WG2 (working groups 1 and 2 of the Joint Committee for Guides in Metrology).