During 2022, the CCPR WG-SP TG10 prepared a comprehensive survey to gain better understanding of the metrological needs and priorities of the CCPR members and observers. The results of the survey are being used to guide the future activities of the CC and to formulate a roadmap for the CCPR for the timeframe of 2022 - 2032. Below is a detailed strategic plan.

Strategic Priority	Plans for 2022-2025	Long Term Plans (2025-2032)
SI-future of the candela	 Form task group under WG-SP Select task group chair Establish term of reference Workshop on cone fundamentals 	Develop a strategy for implementing a new photometry system based on cone fundamentals
SI framework for digitalization in photometry and radiometry	 Form task group under WG-SP Select task group chair Establish term of reference 	 Address challenges in the field of photometry and radiometry caused by digital revolution in the global measurement system
Digital calibration certificates as it relates to the CCPR	Form a task group under WG-CMC	 Address metrological needs for digitization of calibration certificates for photometry and radiometry CMCs
Development of LED-based standard lamps to replace incandescent standard lamps in the field of photometry	Survey to determine the best suitable LED-based standard sources for photometry	 To develop a strategy to deal with the rapid changes in technology to ensure availability and stability of the selected artefacts. Conduct and complete pilot study on selected candidates for Luminous Intensity Luminous flux Total spectral radiant flux Workshop on capacity transfer to all members and observers of the CCPR If needed, new CMCs
Replacement of source-based photometry by detector-based spectroradiometry	Form task group under WG-SPSelect task group chair	Workshop/webinar on Methodologies for calibration of detector based

	Establish term of reference	spectroradiometry for luminous intensity and total luminous flux measurements
Development of near-field gonio-photometry standards	 WG-SP to investigate if interested NMIs have the need to form a new task group If needed, form new task group under WG-SP 	If needed, Workshop to determine current capabilities and calibration needs for Imaging Luminance Measurement Devices (ILMDs) and then workshop on near-field gonio-photometers capabilities and needs
Few photons metrology	Survey for best available few photon detectors and sources for the realization of SI traceable radiometry	 Workshop on traceability chain to classical radiometry by overlapping power ranges If needed, pilot study of selected candidates for the measurand of total spectral radiant flux If needed, new CMCs
UV metrology	 Form task group under WG-SP Select task group chair Establish term of reference 	 To develop a strategy to deal with the rapid changes in technology today to ensure availability and stability of the artefacts. Survey to determine best available UV sources and detectors Workshop on UV metrology emerging technologies
Climate and environmental observations	 Study the 2022 BIPM-WMO metrology workshop for climate action report. Ensure representation in the CIPM Sectorial Task Group on Climate Change and Environment 	Establish Discussion Forum on metrology for satellite observations (as it relates to radiometry)
Standards to replace incandescent lamps in the field of radiometry	 Form task group under WG-SP Select task group chair Establish term of reference 	To develop a strategy to deal with the rapid changes in technology and to ensure availability and stability of the artefacts.

		 Identified artifacts for pilots studies on: Total spectral radiance flux Spectral irradiance Spectral radiance
Optical properties of materials	 Survey on specific metrology needs and priorities WG-SP to investigate if interested NMIs have the need to form a new task group If needed, form new task group under WG-SP Form task group under WG-SP and establish term of reference 	Workshop on optical properties of materials measurands, methodologies, and standards

Additional technical areas were considered during the 2022 CCPR survey but not enough interest was demonstrated by the respondents. This roadmap is not excluding any activities but prioritizing the activities of the CCPR as identified from the results of the 2022 CCPR survey. The CCPR will revisit these technical areas in a future survey including imaging photometry and radiometry, standards for optical quantum technologies, comparison on luminance and source colors for display, photovoltaic standards, 3D manufacturing, health and life sciences, radiative energy transfer, radiometric traceability for THz sources and detectors for security applications, and extreme UV lithography.