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Information technology
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UPDATE ON SC28 OFFICE EQUIPMENT

Akira Saito
SC28 Chair
at JTC 1 Jeju
Plenary 2012

ORGANIZATION

(PARTICIPATED BY 13 P-MEMBERS/19 O-MEMBERS)

Chair: Akira Saito, Japan
Secretary: Moto Sugiyama, Japan

Working Groups

Conveners

■ WG1 Advisory WG

Choon-Woo Kim, Korea

■ WG2 Consumables

Paul Jeran, US

■ WG3 Productivity

Dwight Lewis, US

■ WG4 Image Quality
Assessment:

Eric Zeise, US

■ WG5 Office Colour

Fumio Nakaya, Japan

WG1 ADVISORY WG

Responsibilities

- **New project incubation:**
 - **Success example – Creation of WG5 Office Colour**
 - **Work at hand – Authentication of scanned images**
- **Maintenance of SC28 Roadmap**
- **SC28 Cross-WG terminology consolidation**
(contact point for ITVMT)

WG2 CONSUMABLES

Published (only in the past decade)	Under development
Mono toner cartridge yield (ISO/IEC 19752: 2004)	Print cartridge characterization (ISO/IEC 29142)
Colour toner cartridge yield (ISO/IEC 19798: 2007)	Part -1: General (DIS)
Ink cartridge yield (ISO/IEC 24711:2007)	Part-2: Data reporting (DIS)
Colour test pages (ISO/IEC 24712:2007)	Part -3: Environment (FDIS)
Ink photo yield (ISO/IEC 29102: 2011)	Part 4: Ink cartridge attribute
Colour photo test pages (ISO/IEC 29103:2011)	Part 5: Toner cartridge attribute

WG3 PRODUCTIVITY

Published (only in the past decade)	Under development
Digital printing productivity (ISO/IEC 24734:2009)	Measuring first page out time (WD) (ISO/IEC 17629)
Digital copying productivity (ISO/IEC 24735:2009)	Scanning productivity (WD) (ISO/IEC 17991) See note below
Digital copying productivity – single one-sided original (ISO/IEC 29183:2010)	
	<p>Note: SC28/WG3 maintains dialogue with TC171 Document Management Application/SC1 Quality as they are interested in the project on scanning productivity</p>

WG4 IMAGE QUALITY ASSESSMENT

Published (only in the past decade)	Under development
Measurement of gloss uniformity (ISO/IEC 19799:2007)	A JWG being arranged between ISO TC130 Graphic Technology (leading) and JTC 1/SC28/WG4 to develop ISO 15311 – “Requirements for printed matter utilizing digital printing technologies for <u>the commercial and industrial production</u>” Note: WG4 intends to upgrade TS29112 and TS24790 to IS as follow-on projects
Measurement of resolutions of monochrome laser printers (ISO/IEC TS 29112:2012)	
Measurement of image quality attributes for hardcopy output – monochrome text and graphic images (ISO/IEC TS 24790:2012)	

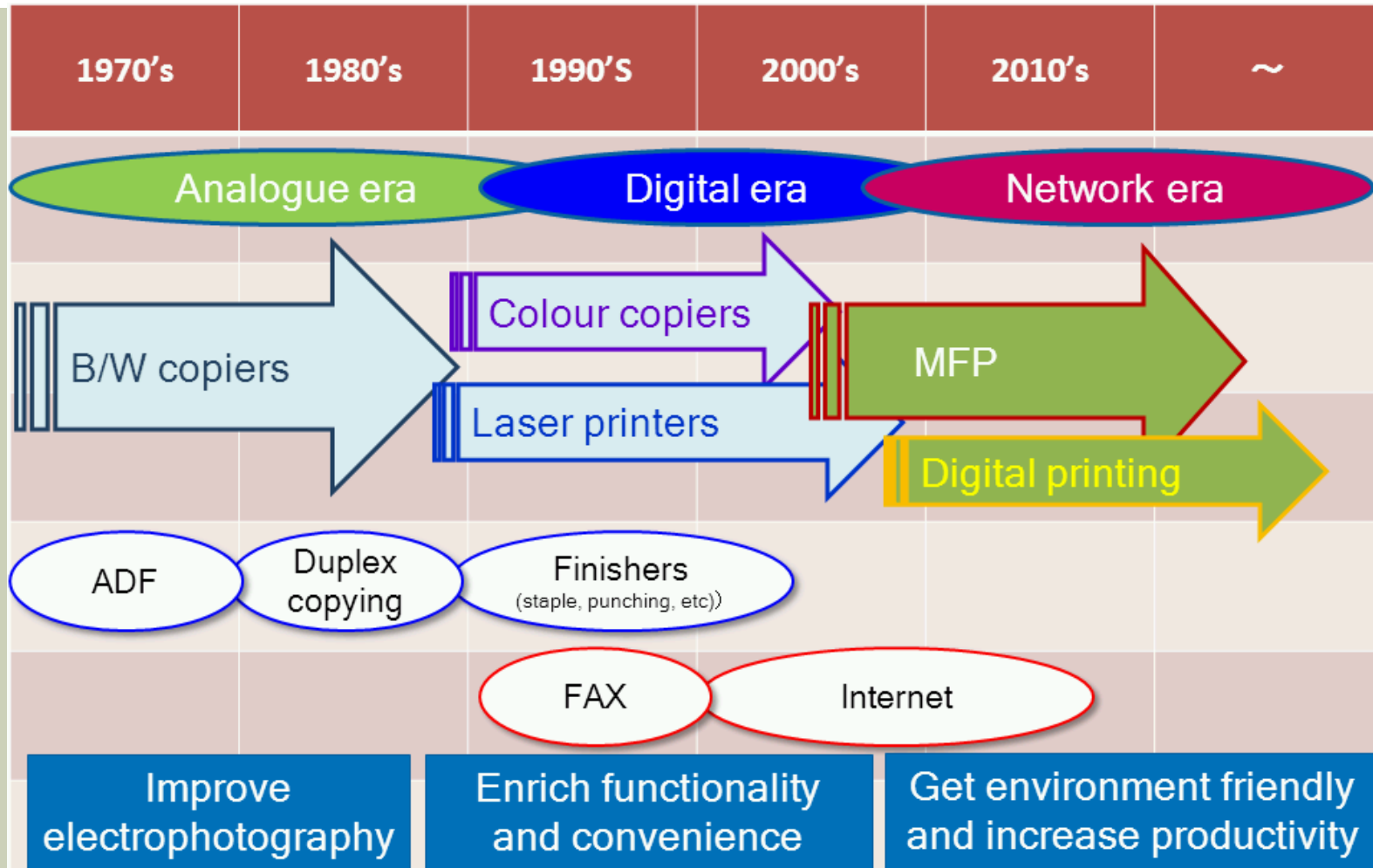
WG5 OFFICE COLOUR (ESTABLISHED IN 2009)

Published (only in the past decade)	Under development
Test method of colour gamut mapping algorithm for office colour equipment (ISO/IEC TR29186:2012)	Colour terminology (NP) ISO/IEC 17823

CROSS WG_s

Published (only in the past decade)	Under development
Spec. descriptors – Copying machines and MFPs (ISO/IEC 21117: 2005)	Spec. descriptors for Class 3 & 4 printers (CD) (ISO/IEC 11160-2) - Revision
Determination of chemical emission rate (ISO/IEC 28360: 2012)	Spec. descriptors for Data Projectors (FDIS) (ISO/IEC 21118) - Revision
Office equipment accessibility guidelines (ISO/IEC 10779: 2008)	
Digital and analogue test charts for colour image reproduction (ISO/IEC TR 24705: 2005)	
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DEVELOPMENT OF COPIERS AND PRINTERS



INFLUENCE OF SC28 STANDARDS ON THE DEVELOPMENT OF COPIERS AND PRINTERS ①

Specification descriptors (Information to be included in specification sheets)

- ISO/IEC 11159:1996 (copiers)
- ISO/IEC 11160-1/2:1996 (printers)
- ISO/IEC 21117:2005 (copiers and MFP)

Facilitated apple-to-apple comparison of products in the market



Prompted product development to beat competitors in functionality and performance

INFLUENCE OF SC28 STANDARDS ON THE DEVELOPMENT OF COPIERS AND PRINTERS ②

Test charts for colour images reproduction

- ISO/IEC 15775:1999
- ISO/IEC TR 24705:2005

Enabled comparison of colour image fidelity and quality between the test chart and its reproduced images



Prompted the development of products to win the competition in the quality of image reproduction

INFLUENCE OF SC28 STANDARDS ON THE DEVELOPMENT OF COPIERS AND PRINTERS ③

Measure machine productivity (throughput)

- ISO/IEC 10561:1999 (analog printers)
- ISO/IEC 24734:2009 (digital printers)
- ISO/IEC 24735:2009 (digital copiers)

Facilitated throughput measurement in the standardized method



Prompted product development to beat competitors in printing and copying speed

INFLUENCE OF SC28 STANDARDS ON THE DEVELOPMENT OF COPIERS AND PRINTERS ④

Methods of measuring image quality attributes

- ISO/IEC 13660:2001
(binary monochrome text and graphic images)
- ISO/IEC 19799:2007 (gloss uniformity on printed images)
- ISO/IEC TS 24790:2012 **to replace ISO/IEC 13660:2001**
- ISO/IEC TS 29112:2012 (resolution of monochrome laser printers)

Facilitated objective evaluation of image quality
attributes of printed output



Prompted product development to win image quality
competition

**Next SC28 Plenary –
June 2013 in Vienna, Austria**

THANK YOU VERY MUCH

**Akira Saito
SC28 Chair
at JTC 1 Jeju
Plenary 2012**