

Sustainable graphic design solutions

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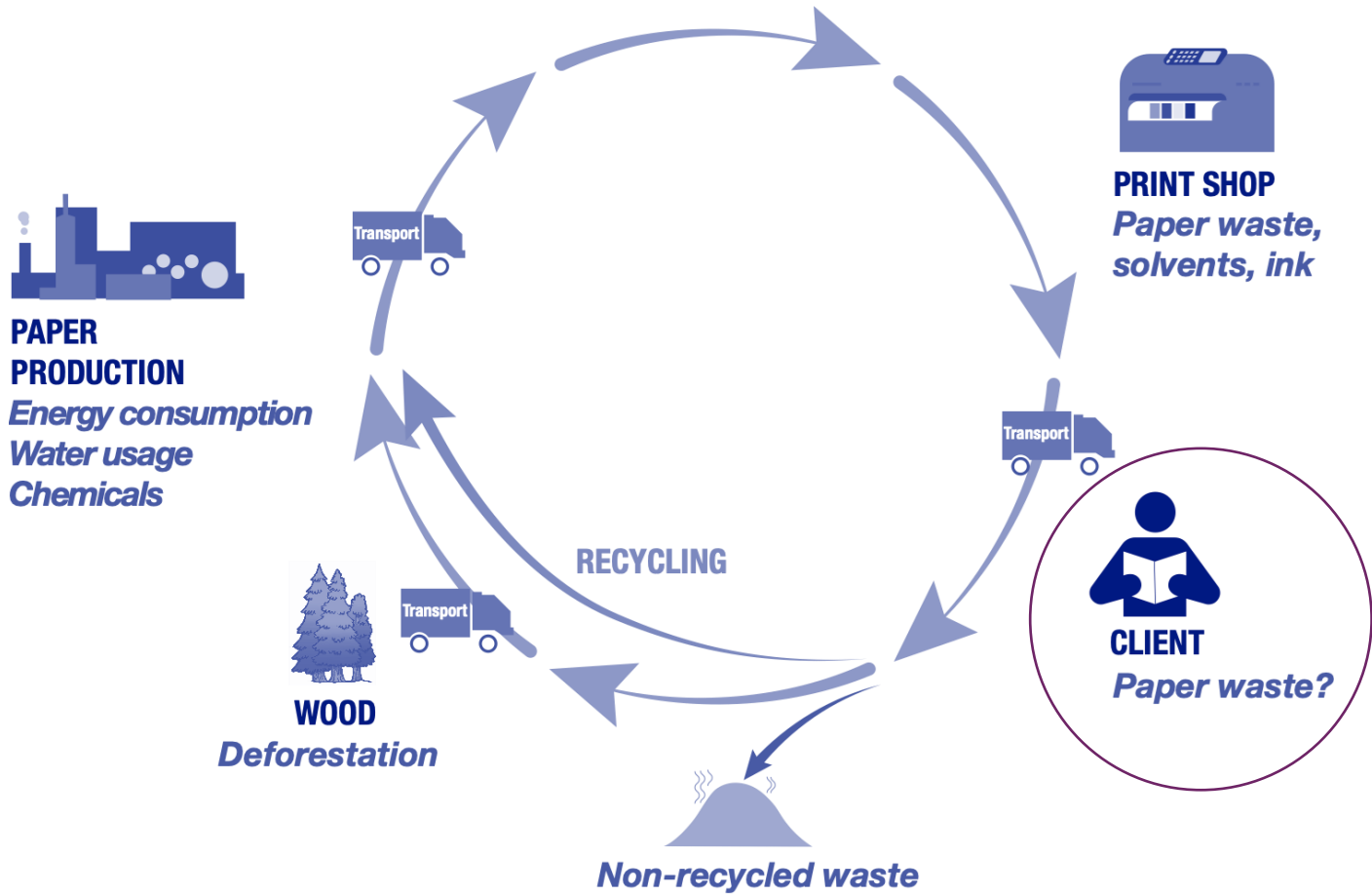
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Sustainable graphic design solutions for CERN

“Sustainable graphic design (SGD) refers to the design process that integrates an environmentally friendly approach and considers natural resources as part of the design”.

- It is to be understood as a process, where the focus is not on the 100% sustainable product, but on the gradual improvement of existing products and processes
- SGD has gained increasing attention over the last years, many companies / Organisations have realised that their communication should have an ecological focus.
- When companies claim to be eco-friendly based on a myopic view of sustainability and without looking at all the implications of their actions, they may end up being accused of “greenwashing”.
- This presentation is oriented on recommendations with graphic design focus. In line with the “CERN’s Main objectives” report, page 12, 13 & 14 (CEPS and SDG).

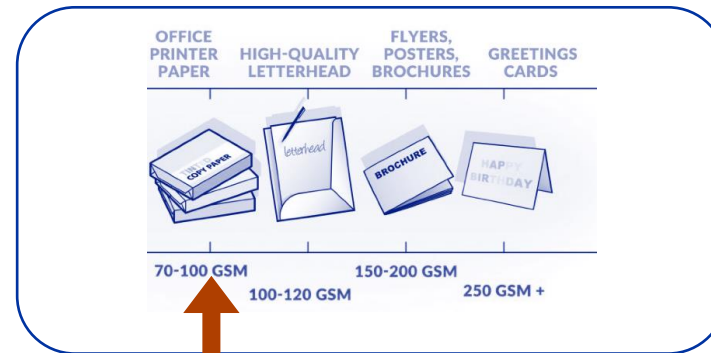
Sustainable graphic design solutions_Issues & opportunity



Minimize PAPER use



1. Avoid paper waste: choose smallest standard format (A3, A4, ...)
2. Choose lighter paper and two-sided printing
3. Only print the minimum number of copies needed
< 2000 copies : choose digital printing



Non-standard format *versus* Standard format

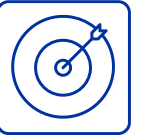
Minimize INK use and Favour digital



1. Printer ink is poisonous and not bio-degradable
2. Maximize white space and avoid filling paper with unnecessary colours
3. Limit number and amount of colours and avoid metallic/neon colours, glossy varnishes
4. Favour digital printing
 - More ecological for < 2000 copies
 - No cleaning work
 - Less emission of volatile compounds
 - Adapted for use of environmentally friendly papers
 - Toner cartridges can be recycled



Choose a GREEN PRINTSHOP



1. Support local companies (CERN rules / transport)
2. Support companies that care about the environment:
 - Use of environmentally friendly printing techniques
 - Use of FSC- or PEFC-certified virgin fibre (or recycled paper)
 - Paints/cleaning with little volatile organic compounds
 - Water based, chlorine-free adhesives and coatings
 - Safe waste disposal for paper and chemicals
 - Efficient use of materials
 - Energy saving measures



Minimize PLASTIC use

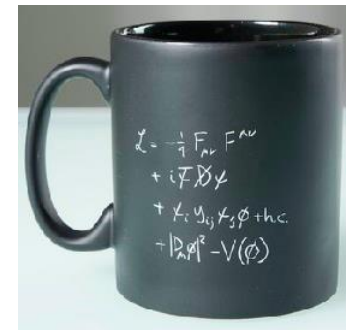
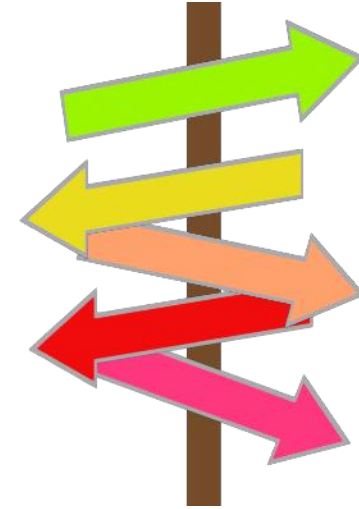


Exhibitions, signage and events

- choose durable and recyclable materials
- minimize amount of plastic (no PVC) for posters
- minimize amount and size of objects for signage

Object branding, CERN shop, conference goodies ...

- choose renewable materials
- avoid plastic materials for physical objects
- avoid plastic packaging



1



2



3

Digital media: LESS (data) is more



Design for websites, social media, videos:

- minimize amount of required data transfer
- minimize use of CPU processing (electricity consumption)
- offer image resolution and format adapted to devices
- offer videos with optimized resolution and compression
- disable auto-play
- prefer vectorized formats (SVG)
- use collaborative documents
- avoid big attachments (e-mails)
- reduce mail banners / email signatures / company logos

Create a **SUSTAINABLE** workspace



Promote environmentally - aware attitudes:

- Energy saving lamps
- Digital collaboration - no printouts
- Check proofs on screen, only print when necessary
- Print on FSC/PEFC certified (or recycled) paper

Education:

Pass on knowledge & experience about SGD

Share among CERN community

ETHICAL brand messaging



- Factual and transparent communication
- No 'greenwashing'
- No overpromise (or overcommitment)
- Avoid cliché :



*hands
clutching
planet*



*holding
trees*



*water
droplets*



*wind
turbines*

Summary



- Minimize: paper use, transport, ink use, plastic use
 - Favour: digital printing, green print shop
 - Digital media: less (data) is more
 - Create a sustainable workplace
 - Focus on environmentally conscious choices
- > Key actors that can help CERN integrate SGD: procurement, printshop, printer services, Library, Departments and Experiments comms teams, event organisers, future projects, CEPS ...

References

Conception durable, Marius Aeberli, ECAL, Lausanne

re-nourish.org

www.designorate.com/sustainable-graphic-design

The “Designorate” website gives an overview about the principles of sustainable graphic design.

The Graphic Design Reference & Specification Book: Poppy Evans, Aaris Sherin, Irina Lee; Rockport Publishers, 2013

FSC: fsc.org

PEFC: www.pefc.org

Sustainable graphic design: Peter Claver Fine; Bloomsbury, 2016

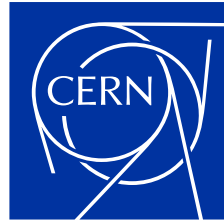
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home.cern