



Outline

- About the MSCA ITN/DN programme and its core principles
- About my 3 projects: CP7.0, CHANGE, and ApPEARS
- Experiences with internationalization and mobility for the PhD education
- Some advice
- Q&A

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Marie Skłodowska-Curie Actions

- Pillar 1 in Horizon Europe
- EU's reference programme for doctoral education and postdoctoral training
- https://marie-sklodowska-curie-actions.ec.europa.eu/
- Doctoral Networks (DN)
 - Previously called Innovative Training Networks (ITN)
 - Funds 10-15 Doctoral Candidates and associated costs for management, training, networking
 - Variants: Industrial Doctorates and Joint Doctorates



MSCA-DN Core principles

- · Excellence in research and researcher training
- Inter-disciplinary, inter-national, inter-sectorial collaboration and co-supervision
- Mobility
 - Incoming mobility
 - Secondments
- · Bottom-up definition of research area
- · Predictability of recurring calls
 - Next deadline: 15 November 2022
- Very low acceptance rate...

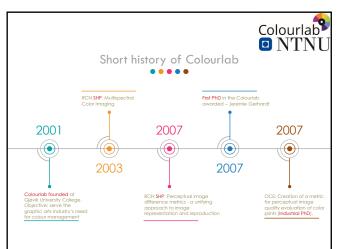
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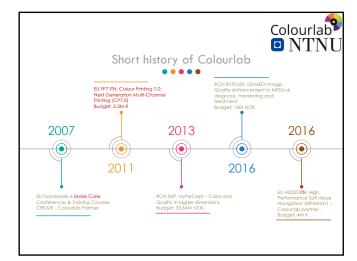


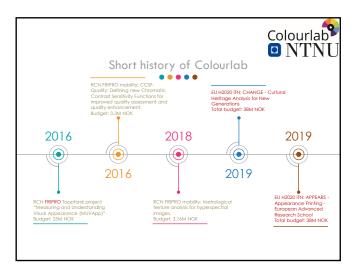
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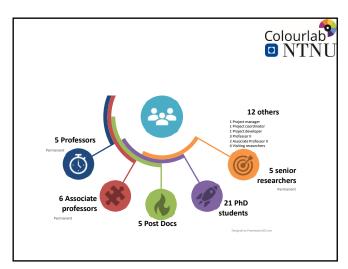
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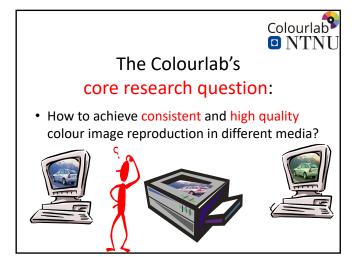
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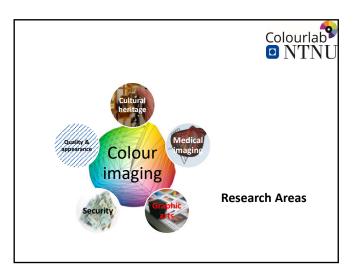


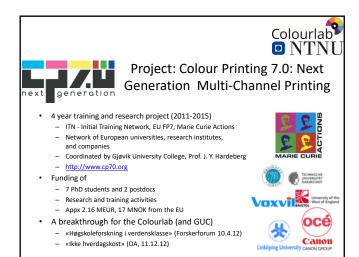














- PhD thesis entitled "Optimization of print quality with multi-channel printing," Télécom ParisTech, 2015
- Sepideh Samadzadegan

 PhD thesis entitled "Printing Beyond Color: spectral and specular reproduction," TUD, 2015
- Radovan Slavuj
- PhD thesis entitled "Modeling and halftoning for multi-channel printers; a spectral approach," GUC(NTNU), 2015
- Melissa Olen
- Paula Zitinski Elias
- PhD thesis entitled "Improving image quality in multi-ch printing multilevel halftoning, color separation and graininess characterization," LU 2017
- PhD thesis entitled "Use of Reflectance measurements to study turbid media by imaging, UEF 2017
- Srikrishna Nudurumati
 - Research on observer variability in appearance matching for spectral colour management
- Ludovic Coppel
 - Research on paper op proofing, fluorescence
- Steven Le Moan
- Irina Ciortan
- Jana Blahova



Colourlab Grand Slam 2018

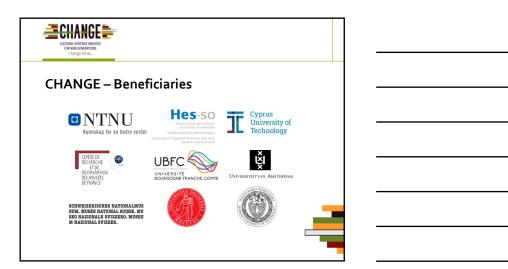
- Two coordinated projects awarded in the Horizon 2020 Marie Skłodowska-Curie Innovative Training Network (ITN) 2018 call
 - CHANGE and AppEARS
- Among the toughest programmes in Horizon 2020 (typ. <5% success rate)
 - Only 2 coordinated projects to Norway
- Ca 80 MNOK total budget
 - 30 PhD students 8 @ NTNU
 - And a Project Manager

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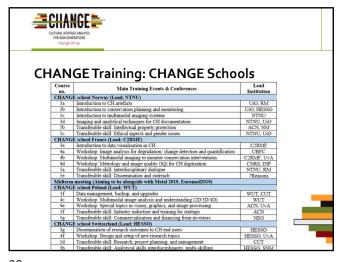


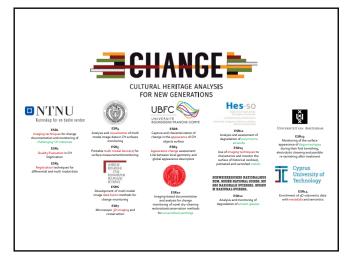




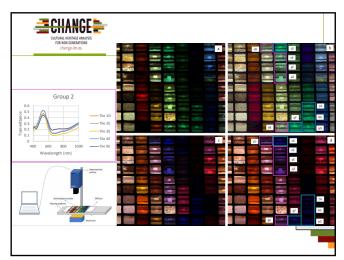




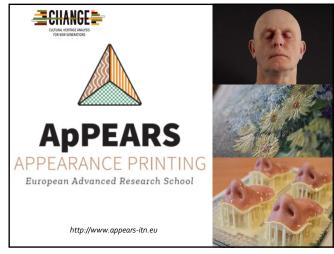










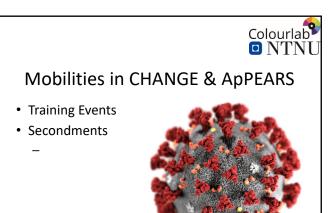




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Mobilities in CHANGE & Appears

- Training Events
 - 4-5 planned at different locations
 - Physical and virtual events
 - Students appreciate the social and scientific outcome
 - Strong network within and beyond the projects



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Mobilities in CHANGE & Appears

- Secondments
 - All PhD students had one or more secondments planned
 - Typically 3-10 months
 - Many changed plans, some secondments turned virtual because of COVID
 - Revisions to align with changing PhD plans, focus on usefulness for the PhD
 - Breaking up into short visit and longer stay sometimes beneficial
 - Overall very good experiences



Photo: Jan and Silvia working on the processing of the data during Jan's secondment at HE-Arc CR in Neuchâtel (Switzerland).

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Other mobility activities

- Incoming PhD mobility is the norm
- Mobility as a natural component in any proposal
 - And ideally in every PhD project
- Ongoing Colourlab INTPART Projects
 - MANER Material Appearance Network for Education and Research
 - CapsNetwork International Network for Capsule Imaging in Endoscopy



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Advice

- · Work internationally over time, build your network
 - Interdisciplinarity is key don't just go after those who are copies of yourself
- ITN/DN is a great project type
 - Bottom up topic definition
 - Focus on researcher training
 - Mobility
- But hard to get
- NTNU specific(?):
 - Use our unique possiblity for PES/POS support
 - Use our Brussels facilities for networking and project preparation meetings



Advice

- · Don't do it alone!
 - Involve yur local research group
 - Get/use administrative support for management, financial, legal parts
 - Consider hiring external consultants for review
 - Partners must contribute but expect to bear the responsibility and do most of the work if you coordinate
- Also for running the project take the help you can get!
 - We redefined the budgets to be able to hire a project manager: Anneli



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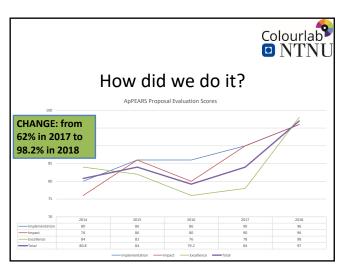


Advice

- Try, try, and try again!
- Improve next year based on feedback in evaluation
 - First ITN success story at Gjøvik University College: CP7.0:
 - 44.8% in 2010,
 - 94.2% and accepted in 2011
- Not always predictable, though; different reviewers every year



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The Norwegian Colour and Visual Computing Laboratory	
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