



Gaël Obein

LNE-CNAM, La plaine St Denis, France

xDDiff

A future project research proposal for the call 2017 (Industry), in the framework of EMPIR program



le cnam



The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

Call 2017

2017-5 SIPs	0.50	0.70
2017-1 Fundamental JRPs	15.60	40 %
2017-2 Industry JRPs	24.30	30 %
2017-3 Normative JRPs	4.80	30 %
2017-4 Research Potential JRPs	2.30	10 %
2017-5 SIPs	0.50	0 %





The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

Call 2017

2017-5 SIPs	0.50	0.70
2017-1 Fundamental JRPs	15.60	40 %
2017-2 Industry JRPs	24.30	30 %
2017-3 Normative JRPs	4.80	30 %
2017-4 Research Potential JRPs	2.30	10 %
2017-5 SIPs	0.50	0 %





The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States

New proposal in the field of the measurement of appearance, following up xDRreflect



xDDiff ?



Preliminary structure of PRT xDDiff (EMPIR Call INDUSTRY – 2017)

During the 5th progress meeting of xDReflect in Gent, the consortium decided to go for a next project in the EMPIR call Industry, following up xDReflect.

Quick brainstorming gave tracks of research resumed below :

- Translucency
- Non flat samples
- Out of plane metrology
- Microscopy and BRDF
- Modeling and virtual reality
- Artifacts
- BSSRDF
- Sparkle
- BRDF on metals

Feedback on these topics has been asked to xDReflect stakeholders (8 Feb 2016).
Received answers from Munskjö, Konika-Minolta, Merck. No problem. We have their support.

I tried to organize these ideas and here I propose a first structure of our future PRT :

Surname : xDDiff
 Full name : Multidimensional Diffusometry for Industry
 Structure : WP1 : Translucency and BSSRDF
 WP2 : Multi scales traceability from the μ BRDF to teledetections
 WP3 : BRDF on metals and non-isotropic samples
 WP4 : Deconvolution issues and reflectometry on non flat samples
 WP5 : Dissemination to users (artefacts, database)
 WP6 : Impact

