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| Idea disclosure document for a Research and Development project on banknotes with the European Central Bank. |

Introduction

The following questionnaire is aimed at helping the ECB Banknotes R&D team to evaluate your idea using a standardised approach. Based on the survey responses, we may approach you for further clarification by email or teleconference.

In the event of a positive assessment, we will draw up a non-disclosure agreement (NDA) and enter into further discussions, potentially leading to a joint project. All information contained in this document will remain confidential.

Your target audience is a team with a diverse scientific background. When preparing the information, please ensure that a knowledgeable scientist would be able to understand your content, perhaps with the support of the references provided. Try to be clear on a technical level and avoid using marketing jargon.

Please send the completed form to BN-Development@ecb.europa.eu. To protect any communications, you can also use our PGP public key, available at <https://www.ecb.europa.eu/euro/banknotes/research/html/index.en.html>.

Information about the submitting party

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| Contact person name |  |
| Describe whether you are an individual, team, company, etc. |  |
| Provide internet links to any information on the group/company/institution. |  |
| Describe any previous experience in joint research or cooperation with the banknote (or other) industry |  |

Technical description

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| Briefly describe how authentication of your feature would take place from the user’s point of view. |  |
| Describe the underlying technical principles.  Provide links to any background documents and/or patents, where appropriate. |  |
| Are special materials involved?[[1]](#footnote-1) If yes, please describe them and/or give references. |  |
| If the feature system requires or can be authenticated by sensors, describe the technical characteristics of those sensors. |  |

Novelty

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| Describe the problem your idea is trying to solve. |  |
| Describe the ways in which it is better than existing solutions. |  |
| How robust is the feature likely to be against adversarial attacks?[[2]](#footnote-2) |  |

1. By way of example, a special material could be a pigment, a diffractive device, a special fibre or a microlens. As an indication, the following are NOT special materials: a specific print pattern or image processing software. [↑](#footnote-ref-1)
2. Bear in mind that an adversarial attack will not necessarily reproduce the system, but simply try to emulate the effect. [↑](#footnote-ref-2)