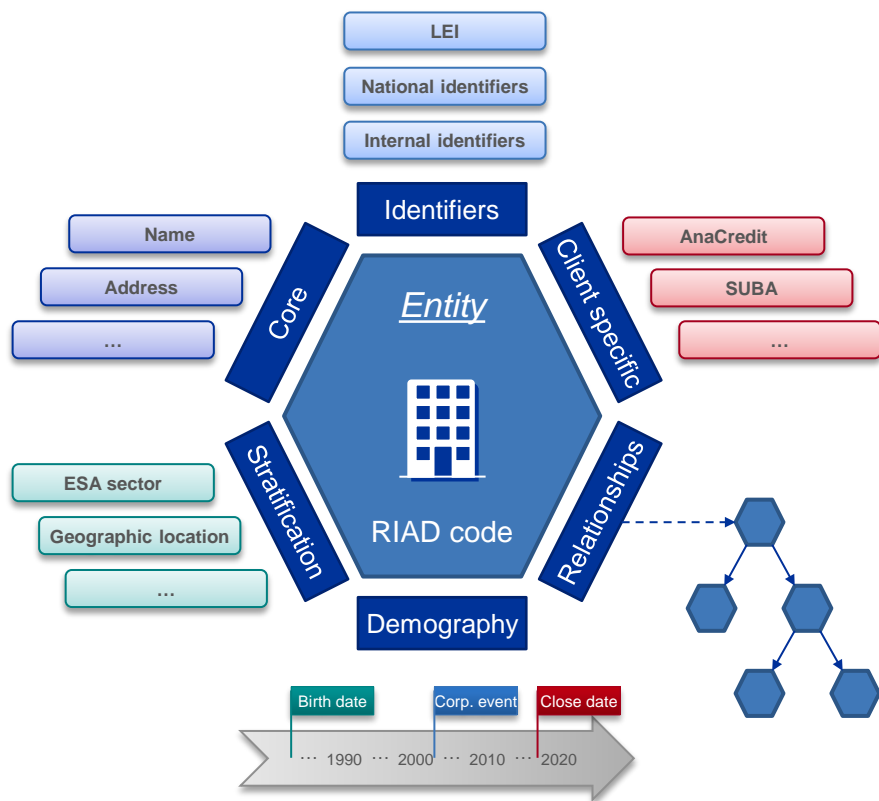


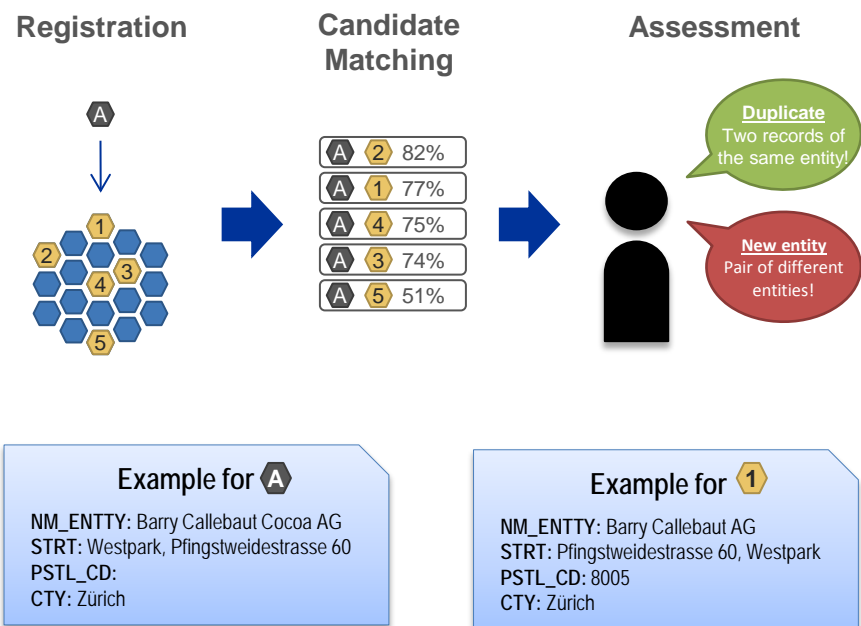
RIAD

- ESCB's shared master dataset
- 9.7 million legal entities, incl. foreign branches
- Over 1,000 regular users across the ESCB and the SSM



Motivation

- Registration of non-resident entities (so called TEMP entities) requires assessment by host country
- Assessment for duplicates or new entities supported by automated candidate matching
- Final assessment is a manual process

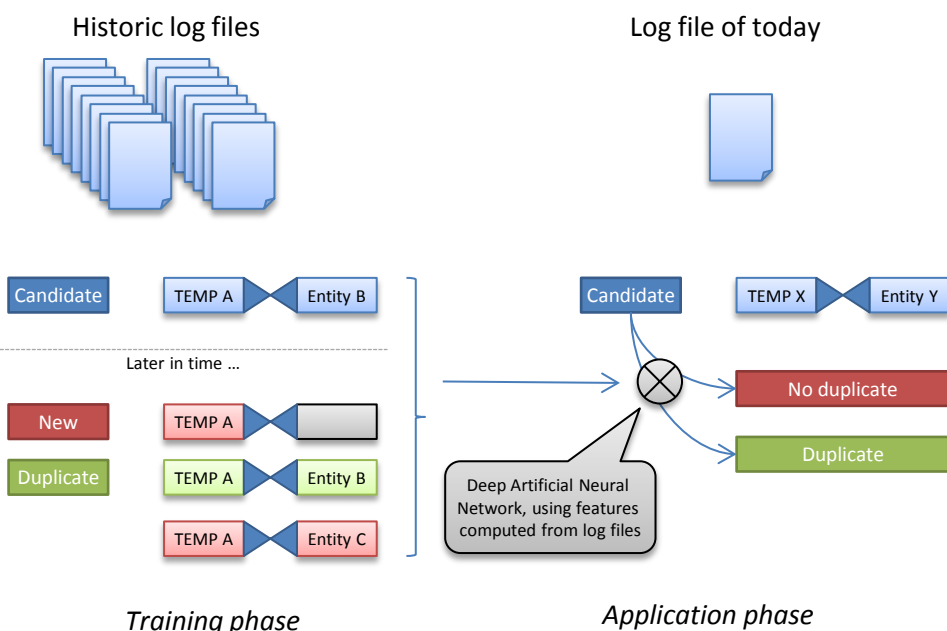


Example for A
 NM_ENTTY: Barry Callebaut Cocoa AG
 STRT: Westpark, Pfingstweidestrasse 60
 PSTL_CD:
 CTY: Zürich

Example for 1
 NM_ENTTY: Barry Callebaut AG
 STRT: Pfingstweidestrasse 60, Westpark
 PSTL_CD: 8005
 CTY: Zurich

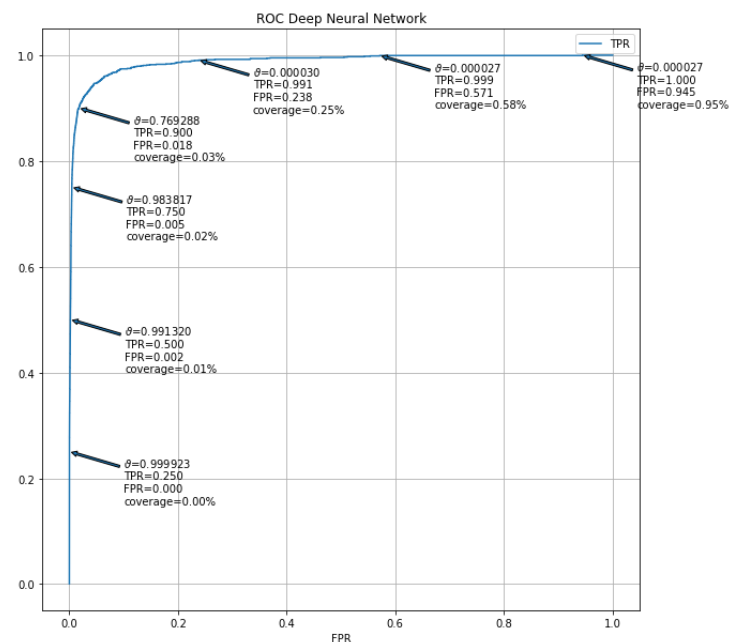
Approach

- Log files provide information on candidates and results of manual assessments
- More than 1 year of observations
- 14,086 matching, 788,896 non-matching pairs



Evaluation

- Cross validation (80/10/10): 96.4% accuracy
- ROC curve for selecting confidence thresholds



- Manual assessment on 2,485 entities in production

Accuracy	99.91%
Recall	99.69%
Precision	99.69%