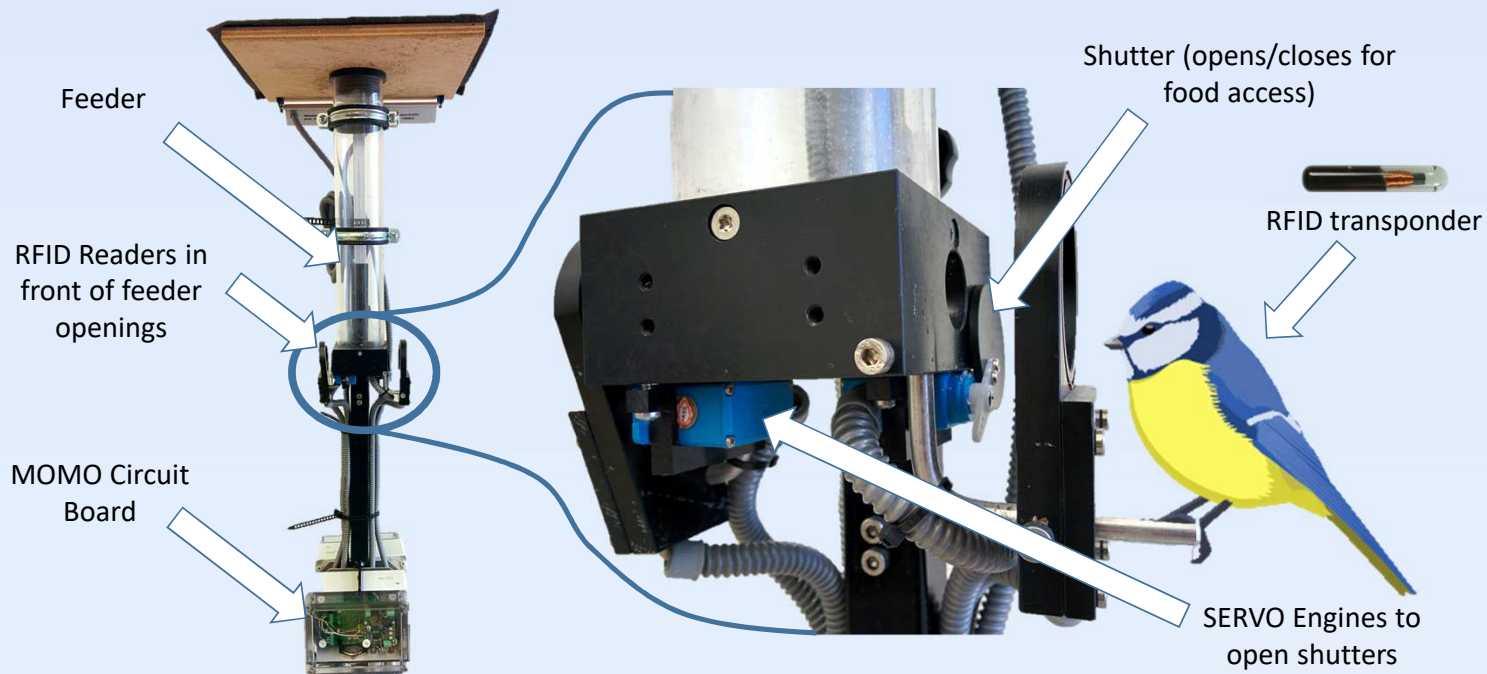


Multifunctional Mainboard to Observe and Manipulate Organisms (MOMO) RFID Readers and SERVO Engines

Automating the recording and manipulation of animal behavior

Peter Loës & Peter Skripsky
Department Kempenaers



APPLICATIONS OF THE RFID READERS AND SERVO ENGINES:

- Identification and manipulation of any species that can be fitted with a RFID transponder
- ID-specific feeding experiments (e.g. food exclusion and manipulation of social feeding groups)
- Social network analyses (e.g. winter foraging flocks)

POSSIBLE CONFIGURATION SETTINGS:

Operating time of the feeder [hour:min]

ON_TIME = 04:00

OFF_TIME = 22:00

Shutter open and closed durations [s]

KEEP_OPEN = 10

KEEP_CLOSED = 0

ID-specific configurations

ID = ANY:0 → for any other ID close feeder

ID = 4B40000000008001

ID = 3F0213A801AF0001

ID = 3B40000000008001

ID = etc. tested 800 ID's



SERVO Engine Circuit Board



Max-Planck-Institut
für Ornithologie



MAX-PLANCK-GESELLSCHAFT