**Detection of pig movement and aggression using deep learning approaches**

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**Supplementary Material S1**

**Short video - Pigs were detected, tracked and assigned an artificially assigned fixed numeric ID, in a video sequence comprised of successive frames. A red bounding box represents a pig that was detected in the current frame. The red line represents the trajectory, beyond a certain distance, the front part of the track line disappears. In the upper left corner of the video is the motion distance of the pig. For demonstration, we record the motion distance of the pig with ID 1002 and 1004.**