

# Voluntary test for JKI-approval and loss reduction at Julius Kühn-Institute in Germany

The German Plant Protection Act stipulates in § 16 that the use of plant protection products may only be carried out with devices that pose no danger to humans, animals, groundwater and the natural environment. The text in this law contains very generally formulated requirements for plant protection equipment and was specified in the EN / ISO standard 16119. Further more, the plant protection equipment, etc. must meet certain standards relating transverse distribution, residual amounts, cleaning, agitation, pump capacity, tank capacity, boom stability according to certain JKI-guidelines.

The JKI offers voluntary tests called “**JKI Anerkennung**”. The JKI approval includes technical and practical tests during one season. It is based on EN/ISO 16619 plus additional requirements ([see JKI-guidelines](#)) and examination of work safety. The test report and the JKI approval is a result of positive testing. The device is listed in the section "Approved plant protection equipment", which is part of the Descriptive List.

See following links:

[Datenbank anerkannte Pflanzenschutzgeräte](#)

[Bundesanzeiger](#)

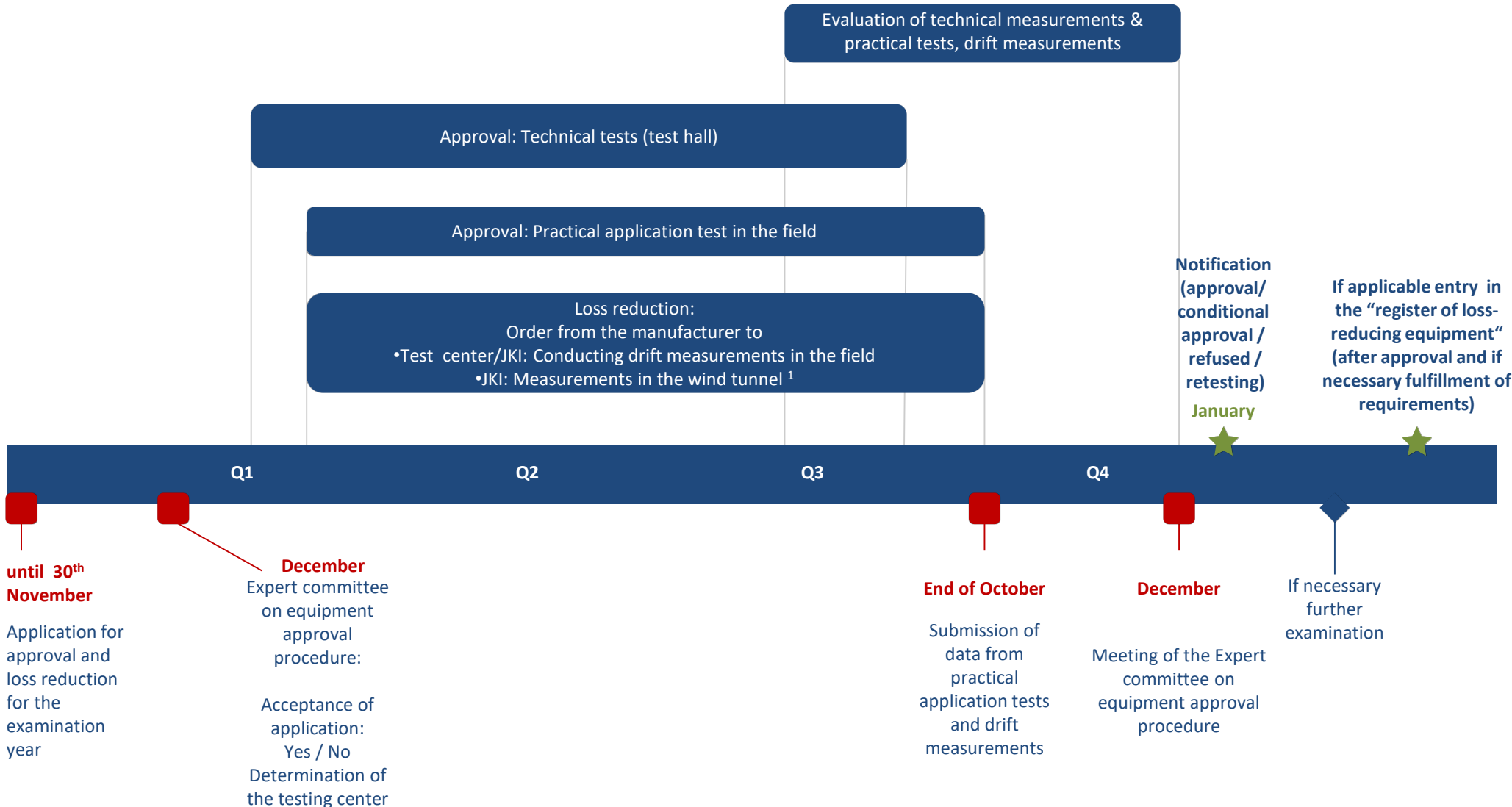
When providing two devices, technical tests and the practical testing period can take place at the same time.

# Voluntary test for JKI-approval and loss reduction at JKI in Germany

A constitutive offer by the JKI is the **test on loss reduction** (drift reduction and reduction of plant protection products). A precondition for testing is a successful JKI-approval and if necessary fulfillment of imposed requirements. After successful testing on loss reduction the equipment will be listed in the Register of loss reducing equipment section “[drift reduction](#)” or section “[reduction of plant protection products](#)”, which are parts of the descriptive list (“beschreibende Liste”).

The applicant has to supply the necessary results for evaluation, achieved from field and wind tunnel measurements according to the [JKI-guidelines](#). These measurements can take place at the same time as the test for JKI-approval. The results have to be presented to the JKI. Wind tunnel measurements can be ordered informally with the JKI. Field measurements can be conducted by the Plant Protection Offices of the German federal states as well as the JKI.

# Timeline for JKI-approval and listing for loss reduction



<sup>1</sup>Wind tunnel testing is currently only possible for flat fan and double flat fan nozzles