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The FMS Inc., first patented commercial product VETrak™ **Smart tray** system for **Swine industry** has successfully passed customer site or field testing. Hardware unit is based on state-of-the-art Radio frequency technology. The VETrak™ system allows user to measure liquid level in **six** sealed swine liquid medication bottle per *Smart tray*.

The VETrak™ *Smart tray* system is sensitive enough to respond with these different swine liquid medication combination - from water based medication to oil based medication to different solution mixtures, from transparent liquid to thick, dark opaque, color solution from 25ml to 600ml in different glass and plastic bottle sizes, even most critical and different types of liquid medication.

The VETrak™ solution approach is unique and first of its kind in swine industry, which allows swine firm owner to reduce medication cost and over all operation cost through these parameter or indicators -

- a. Track medicine inventory by measuring liquid level in each medication bottle.
- b. Track whom these medicines are given - when and doses
- c. Vaccine due alert system.
- d. Inform medicine supplier and distributor for future order and projection.
- e. Control medicine wastage and save operation cost
- f. Data analytics on collected data - produce several reports, graph charts and projection

The VETrak™ *Smart tray* hardware system measures vaccine liquid level and volume in a sealed bottle. The custom built-in application graphic user interface (GUI) software online workflow monitors and tracks the inventory system from purchase to consumption phase. Track given vaccine, vaccine due scheduler, generates all tracking, monitoring and statistic reports. Also big data analytics report on collected data.