

**Title:** Transformation by adorsho praniSheba to Ensure Safe Animal Protein Production System

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**Abstract: (300 words)**

Advanced digitalization technologies can help modern farms optimize their economic contribution per animal, reduce the drudgery of repetitive farming tasks, and overcome less effective isolated solutions. It ultimately supports safe animal protein production for human beings. Realizing this, **adorsho praniSheba** has started bringing qualified **veterinary services** along with other monitoring devices to the doorsteps of marginalized communities through 4IR technology. There is also a facility for recording the farm's ERP, and a data preservation system. To ensure proper hygiene in farm sheds, it has developed an IoT-based intelligent remote monitoring system. Enrolled stakeholders can easily monitor their farm and receive notification messages wherever they cross the threshold value. As a result farmers take immediate action to prevent loss. For insurance purposes, it brought an artificial intelligence-based cattle identification system. The method is a temper-free digital identification system for insurance purposes. **For forward market linkage**, praniSheba shop is directly involved in bringing safe animal production to consumers directly from the producer. Standards of CMM/ISO technologies like Vue.js Framework, Php, MySQL Database, Nginx Server, JavaScript, etc. were used to make the system customer-friendly. The use of technologies is increasing day by day because it is the start-up stage. Still, a total of 1229 farmers got service from praniSheba Vet. The service time is 24/7 along with disease mapping & tracking facilities. More than 600 cattle were insured by a digital identification system. A total of 804 farmers produce their farm products under the close supervision of the system. With promotional support, the service of adorsho praniSheba can be spread further. The platform has tremendous potential for remote and marginal communities to make their farms profitable and **produce safe protein-based food** for the nation that also assists to achieve the Sustainable development goal no 1, 2 and 12.

**Keywords:** Transformation, Protein Food Security, Online Veterinary Services, 4IR, AMR