

### ### \*Challenges and Innovative Solutions in Agricultural Product Inspection\*

Ladies and gentlemen, welcome.

Today's agricultural world is undergoing significant changes. In a time when the global population is growing and the demand for high-quality food resources is greater than ever, technology plays a pivotal role in the industry. One of the most significant innovations in recent decades is \*genetically modified organisms (GMO)\*. These products, created through genetic engineering techniques, aim to enhance traits like resistance to pests and adaptability to harsh environmental conditions. Common examples include crops such as corn, soybeans, and rice, which are widely produced using these methods. However, despite these advances, concerns related to health and environmental impacts have been raised, leading to stringent regulations in many countries to monitor and inspect these products.

One of the primary challenges with GMO products is the strict environmental and health regulations imposed by various countries. In many regions, consumers prefer non-GMO products, and many countries require the labeling of GMO products. In today's presentation, I will focus on the critical role of inspection groups in ensuring the quality and safety of GMO products. I will also explain how the use of innovative inspection solutions and independent certification processes allows us to gain the trust of customers and ensure that agricultural products meet the highest international standards.

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### ### \*Challenges in the Inspection and Certification Process\*

The main challenge faced by inspection groups and importers is the reliance on certificates issued by external bodies, such as producers or foreign organizations. This reliance can lead to issues with the accuracy and authenticity of the certificates, especially when foreign certificates might follow different standards or lack sufficient precision. Additionally, relying on foreign certification can introduce risks regarding compliance with domestic regulations, and there is always the potential for fraud or mistakes in the certification process. These issues can lead to legal, commercial, and even public health risks.

Due to the importance of the issue, a comprehensive and independent method is needed to inspect and certify products. Our inspection group believes that by adhering to international standards and utilizing advanced technologies, we can carry out inspection processes in a reliable and transparent manner, providing customers with confidence in the authenticity and quality of their products.

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### ### \*Our Solutions and Capabilities\*

#### \*1. An Independent and Comprehensive Process Compliant with International Standards (ISO 17065):\*

We provide an independent inspection process that allows for the validation of foreign certificates based on global standards like \*ISO 17065\*. This process ensures that all products are thoroughly inspected without relying solely on information provided by the exporter or external sources.

We use cutting-edge technologies such as \*PCR\* and \*NGS\* to precisely examine the DNA of products, enabling accurate and comprehensive detection of any genetic modifications. This ensures that we offer a reliable alternative to certificates issued by foreign entities.

#### \*2. Speed and Accuracy in Inspection and Reporting:\*

Many of our clients require rapid results for business purposes. By leveraging advanced technology in our laboratories, we provide fast and accurate results. Our inspections deliver high-quality, precise findings, giving clients the confidence they need to make informed decisions.

#### \*3. International Collaboration:\*

Through expanding partnerships with international organizations such as \*Codex Alimentarius\* and other global regulatory bodies, we have strengthened our credibility. These collaborations allow us to ensure that our clients' products comply with the strict health and quality standards required in international markets.

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### ### \*Delays in Product Clearance in Iranian Ports: Challenges and Impacts\*

#### \*Delays in Customs Clearance:\*

One of the major challenges faced by importers and exporters is the prolonged delays in customs clearance at Iranian ports. These delays are primarily due to political issues, sanctions, and inadequate infrastructure. The process is further hindered by bureaucratic complexities, especially with foreign currency transfers and approvals, causing long waiting times for goods to be cleared.

### \*Negative Impact on Product Quality:\*

Delays not only lead to additional storage costs but also significantly impact the quality and weight of the goods. Agricultural products, in particular, require specific storage conditions such as temperature and humidity control, and prolonged storage in less-than-ideal conditions can result in a reduction in quality. Additionally, environmental factors like humidity can cause weight discrepancies, leading to complications in delivery and customer satisfaction.

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### ### \*Our Solutions for Managing These Challenges\*

#### \*1. Advanced Monitoring Technologies:\*

At our inspection group, we use advanced sensor systems to continuously monitor the environmental conditions of goods during storage. These sensors provide real-time information on temperature, humidity, and other critical factors, ensuring the maintenance of product quality and preventing weight and quality discrepancies.

Our monitoring systems allow us to provide real-time updates to our clients, ensuring they are informed about the status of their goods and can take prompt action if necessary.

#### \*2. Streamlining Customs Clearance with Governmental Collaboration:\*

We actively collaborate with customs authorities and government agencies to expedite the clearance process. By providing accurate and thorough documentation and reports, we help reduce administrative hurdles, enabling faster clearance times.

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### ### \*Conclusion:\*

In conclusion, agriculture and food product trade today require more accuracy and assurance than ever before. At our inspection group, through the use of advanced equipment and international standard processes, we are capable of addressing challenges related to GMOs, delays in product clearance, and discrepancies in quality and weight. Our goal is to build trust and provide reliable solutions so that our clients can confidently rely on the quality of their products.

Thank you for your attention, and I am looking forward to your questions and feedback.

#### Key Questions:

1. How can we ensure that imported or exported GMO products comply with international standards?
  - Many importers and exporters rely on certificates issued by external sources. But how can we ensure the accuracy and authenticity of these certificates and prevent discrepancies?
2. What advanced methods are available to accurately identify GMO products?
  - Given the complexity of GMO products, traditional techniques may not offer sufficient accuracy. How can we inspect and certify these products with high precision and speed?
3. How can we speed up the certification process and deliver inspection results to customers as quickly as possible?
  - Clients often need quick and reliable results. What solutions can we offer to guarantee both high accuracy and faster certification processes?
4. How can we protect the quality and weight of agricultural products during extended storage periods in ports?
  - When products are delayed in ports due to bureaucratic or financial issues, how can we ensure that their quality and weight remain unaffected?
5. How can we optimize the customs clearance process and prevent weight and quality discrepancies?
  - Delays in the customs clearance process can lead to weight and quality discrepancies. What solutions exist to streamline this process and avoid such issues?