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**Petfood Safety** Innovative **Monitoring and** Verification **Technologies for Petfood Safety** Management **Systems** 

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# HACCP refresher: petfood safety hazard

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"Biological, chemical or physical agent in petfood, with the potential to cause an adverse health effect"

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Type II: Hazards that can be introduced (or worsened) from the processing environment

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# CMs can also be classified into two types:

Type I: CMs applied at control points (CPs) along the process; e.g. thermal kill measures, FB detection / removal measures, etc.

These CMs are generally used to control Type I hazards.



# CMs can also be classified into two types:

Type II: CMs applied at the process environment as general prerequisite programs (PRPs); e.g. pest control, personal hygiene, SSOPs, etc.

These CMs are generally used to control Type II hazards.



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**Traditionally, a risk** based assessment is used to identify which process control measures (Type I) are worthy of being managed as Critical **Control Points:** 

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# CCP critical control point

"Step at which control can be applied and is essential to prevent or eliminate a petfood safety hazard or reduce it to an acceptable level"



### All other control measures (Type II), are expected to be in place in advance and are managed equally as prerequisite programs:

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### PRPs prerequisite programs "Basic conditions and activities that are necessary to maintain a hygienic environment throughout the petfood chain"









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## **CCPs are special in that** compared to other process CMs, only they require very careful management attention including monitoring, verification, validation, etc.

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The successful implementation of traditional **HACCP** has dramatically reduced the number food safety incidents caused by process failure ...

Currently, most incidents are associated with poor management of PRPs.

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### This was one of the driving forces behind the development of ISO 22000, which introduces the concept of the Operational **PRP**: INTERNATIONAL ISO STANDARD 22000 First edition 2005-09-01 Food safety management systems —

Requirements for any organization in the

food chain

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### **oPRP** operational prerequisite program "PRP identified by the hazard analysis as essential in order to control the likelihood of introducing petfood safety hazards to and/or the contamination or proliferation of petfood safety hazards in the products or in the processing environment"

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# Therefore...

ISO 22000 implementers must now devote special managerial attention to oPRPs and not only CCPs.

# But...

How do we monitor and verify oPRPs (pest control, glass control, hand sanitizing, effectiveness of cleaning...?)

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### To the same extent that monitoring and verifying CCPs ensures that 100% of the products were effectively controlled....

We must be capable of monitoring and verifying oPRPs

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# **Examples of oPRPs:**

- Equipment sanitizing
- Hand washing and sanitizing
- Pest control
- Glass control
- Control of loose machine parts
- Etc...

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# Innovative monitoring and verification solutions:

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## **Smartphone e-monitoring Remote pest monitoring RFID** hand sanitation monitoring **Remote video monitoring ATP Bio-Luminescent** verification of cleaning effectiveness

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# e-monitoring of any inspection point:

**Glass audits** Plant maintenance Housekeeping Employee compliance **OSH and environment** Etc...

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### DASHBOARD









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# Hand washing and sanitizing monitoring systems



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# Smart ID badges (RFID) Hand sanitizing monitoring by location and or interval Real time intervention





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#### Receive instant alerts when your employee fails to wash their hands!

An employee leaves the bathroom without washing their hands!

1

CloudClean devices communicate with each other.

3 Instant alerts sent via e-mail or text!

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# Remote Video Monitoring

https://www.youtube.com/watch?v=toVuil1rV2w

# Remote Video Monitoring

Hand washing behavior **Ingredient** addition **Metal detection behavior Sieve inspection compliance Use of protective garments** And more...

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# **ATP Bio-luminescence cleanliness monitoring**

https://www.youtube.com/watch?v=tnad-UfGI5c

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### Thank You!

Because what you don't know, can harm you

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