



Dioxins in Feed/ Food in Turkey



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- **1. History of dioxin testing on food&feed**
- **2. Demand for Analysis**
- **3. DR CALUX in Turkey**
- **4. Amounts of PCDD/F and dl- PCBs in food&feed**
- **5. Conclusion**



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2004

AGKLM purchases GC-HRMS

2006

MATRA project between Government of Netherlands and Ministry of Agriculture (consultancy for dioxin laboratory set up and training)

2008

Testing import and export samples

JUNE 2010

Moving of GC-HRMS laboratory to Ulusal Gıda Referans Laboratuvarı (National Reference Lab, UGRL)

JULY 2010

UGRL accept samples for dioxin testing

MARCH 2012

Starting testing at AGKLM with DR CALUX

MARCH 2013

Authorization of Özel AG PUR Analiz Lab. with GC-MS/MS



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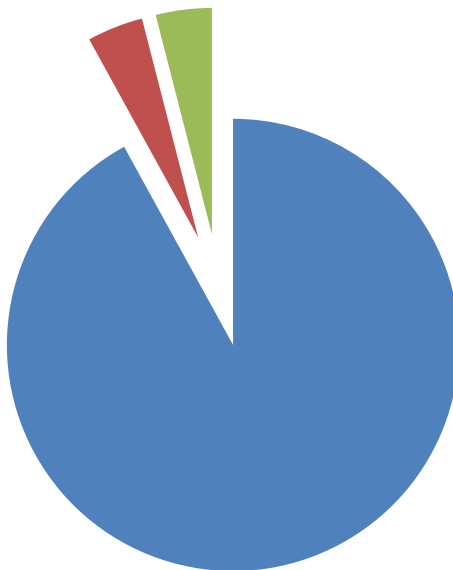
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DR Calux,2013



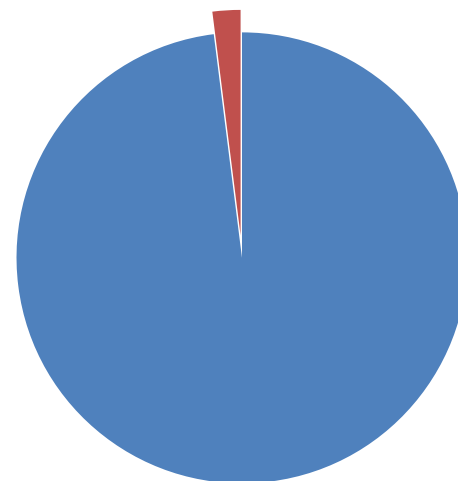
≈ 1500 Samples

GC-HRMS,2013



≈ 100 Samples

GC-MS/MS,2013



≈ 380 Samples

■ EXPORT ■ IMPORT
■ Monitoring

Samples for DR CALUX

➤ **Import samples:**

69% feed material - 31% food



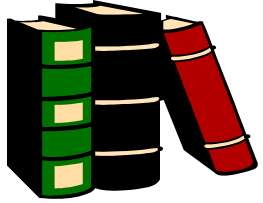
➤ **Majority of the samples are marine products, butter, feed additives and pet food**

➤ **Domestic control according to the annual monitoring plan from the Ministry**

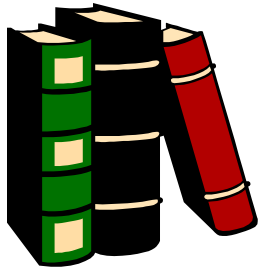
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- Dioxin testing capabilities of Turkey improved with DR CALUX.
- Monitoring program for dioxins has been established by the ministry for the first time. Screening is carried out with DR CALUX.
- Customers are pleased with cheaper testing in a shorter time.



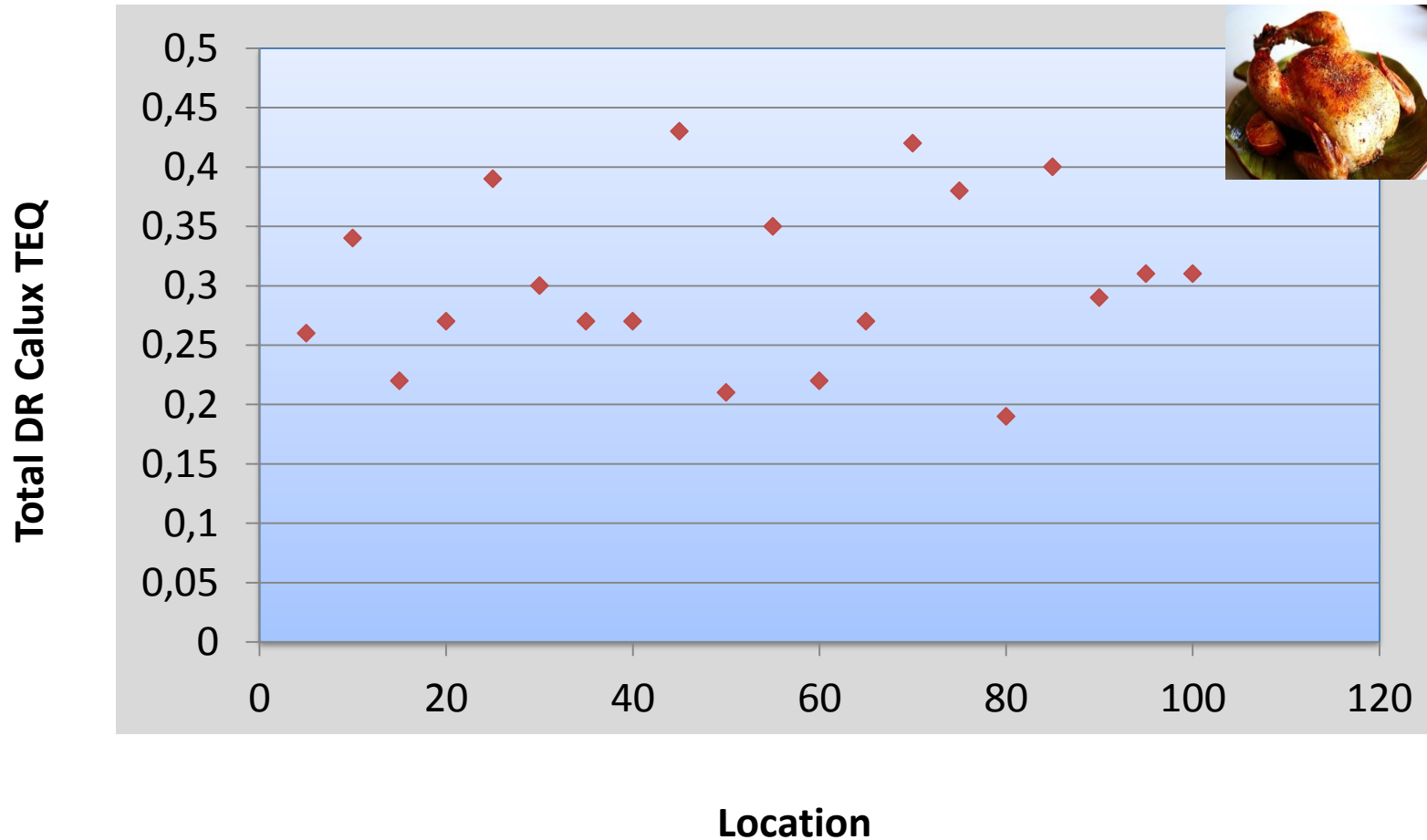
- Private request samples are now tested in Turkey, which were mostly sent to foreign countries before DR CALUX.
- Initiatives for national and international projects on food and feed.

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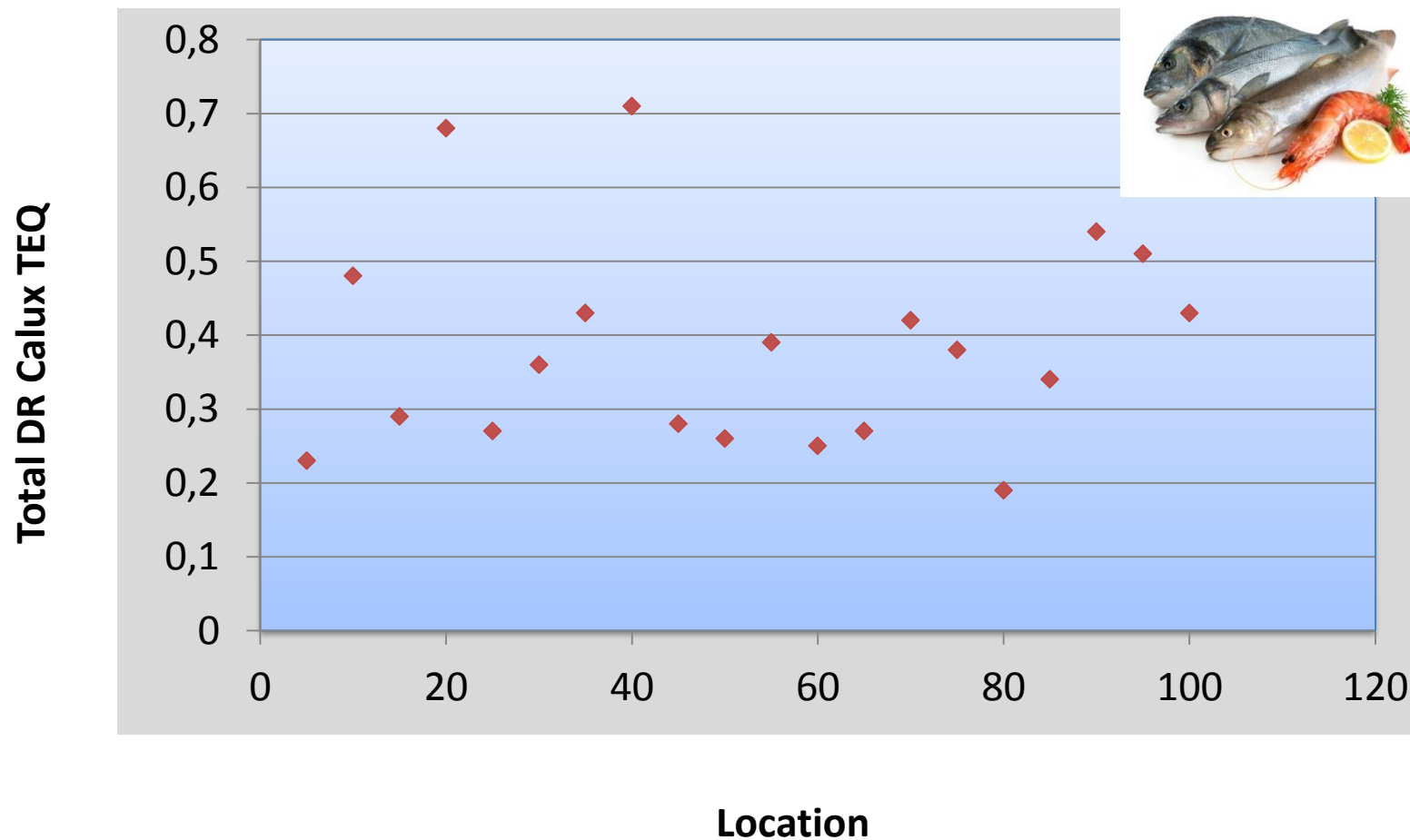


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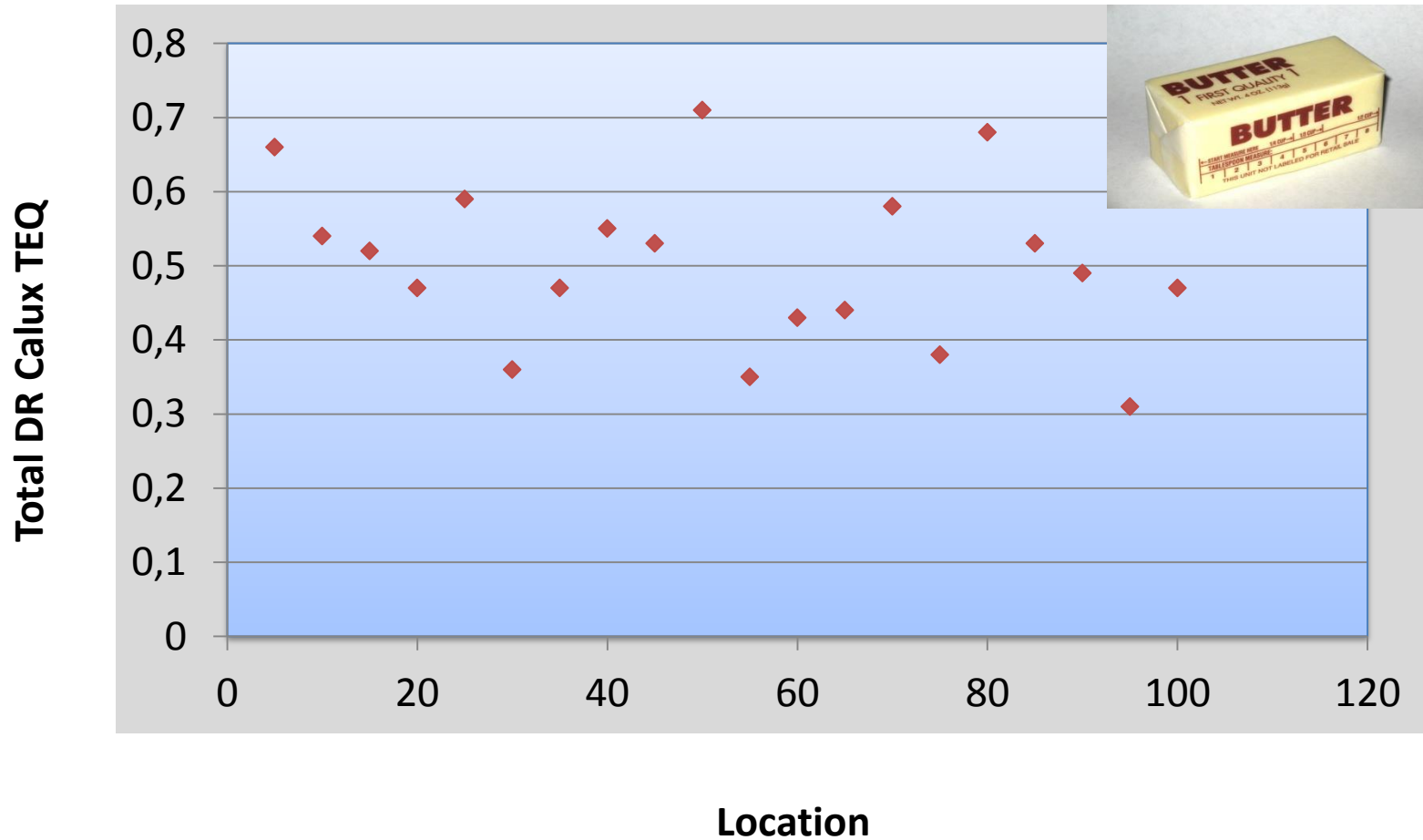
POULTRY



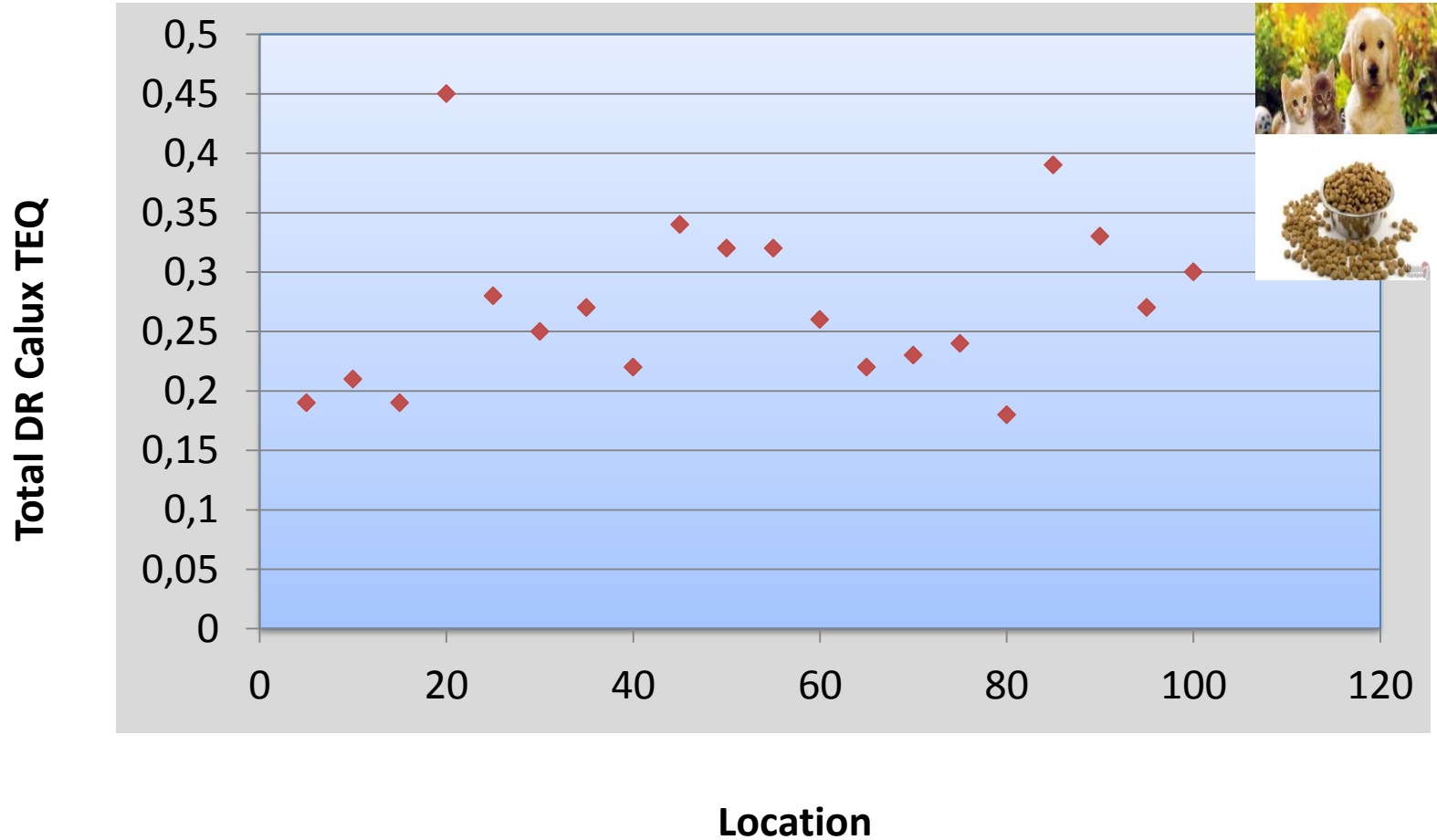
FISH



BUTTER



PET FOOD



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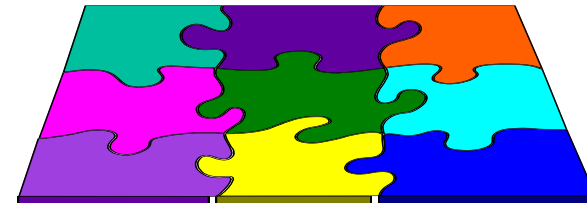


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Conclusion



- DR CALUX provided the solution for dioxin testing on food and feed
- Feed samples increased, monitoring established on food
- Screening is carried out covering all the regions
- Customers are pleased with fast and reliable results
- 100% success on negative samples
- Suspected positives for eggs, egg yolk powder, soybean oil and fish oil intended for feed production



Thank you...



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