

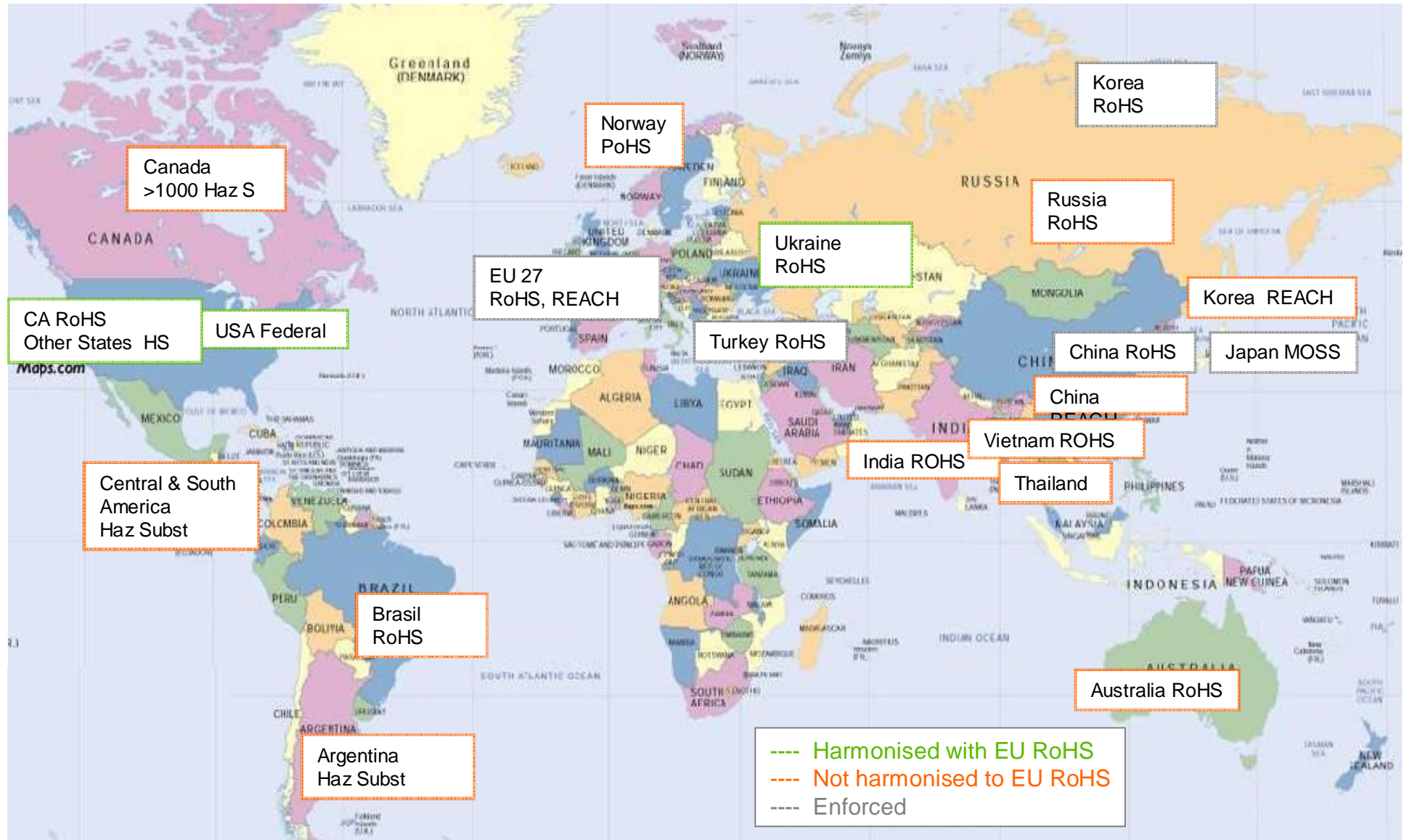
A look into the “kitchen” of a large electronics company in the hurdle of ensuring compliance on chemical substance regulations

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“RoHS/REACH” Legislation Global



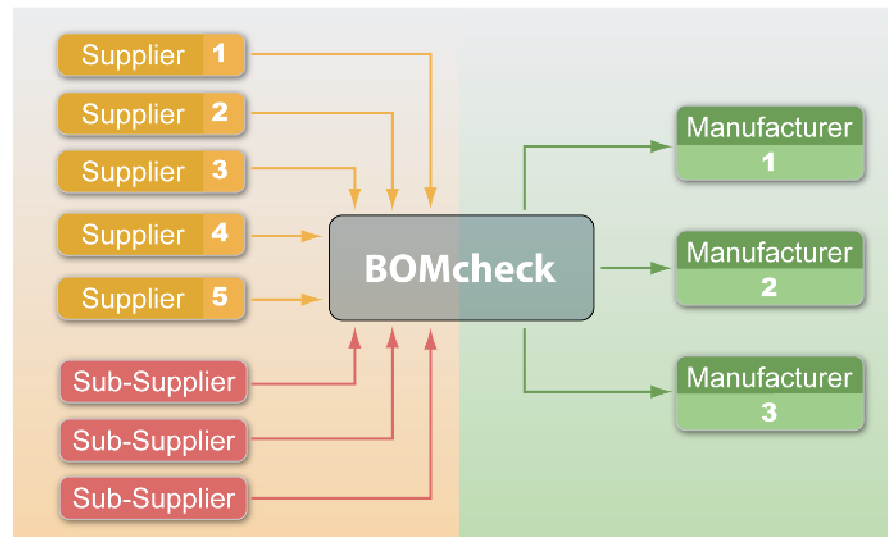
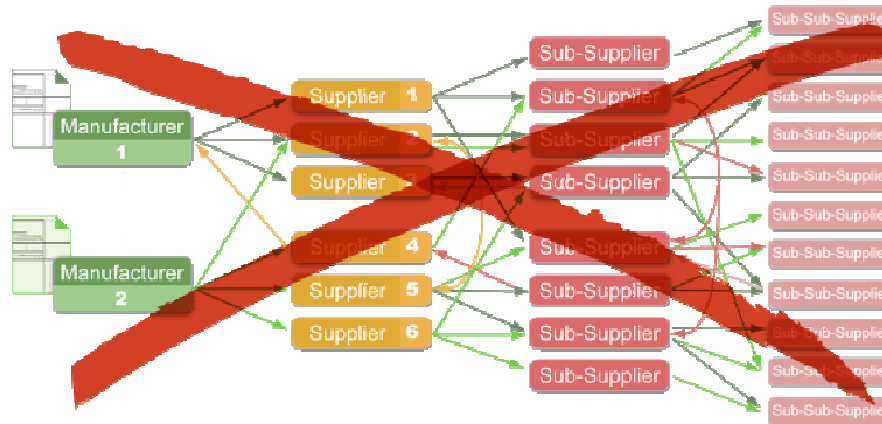
Philips needed an alternative to a signature under Regulated Substances List because...

1. More and more legislation about substance information in products:
 - REACH: companies need to declare whether articles contains Substances of Very High Concern (SVHC) in > 0.1% by weight
 - 38 in 2010, >100 SVHC in 2012, >300 SVHC in 2015
2. Philips cannot manage the compliance evidence on paper anymore as legislation is updated every 6 months
3. ECHA RIP 3.8: If you have insufficient time, then proactively identify “potential” SVHC in your supply chain

Conclusions:

1. Philips needs one central database for Substance Management!!
2. Philips should encourage Full Material Declaration

One shared industry system saves time and cost for suppliers and manufacturers



BOMcheck is the most effective tool in electronics sector for making declarations

	BOMcheck	Other system (e.g. PTC, JAMP, Technidata)
Share data with multiple customers	yes	no
Guidance on substances	yes	no
Multiple language platform	yes	no
Free training to supplier	yes	no



A wide range of OEMs are using BOMcheck

SIEMENS

PHILIPS

OSRAM 

AGFA 
HealthCare

 GE
Sensing & Inspection Technologies

TOSHIBA
Leading Innovation >>>

 **Tyco Electronics**
Our commitment. Your advantage.

 **BLACK BOX**
NETWORK SERVICES

 **Benchmark**
electronics

 **PDSi**
Pinnacle Data Systems, Inc.

 **SC**
sagem communications

 **PEPPERL+FUCHS**
PerceptionDIGITAL
Consumer Electronics Design Division

 **CCS-Inc.**
Comprehensive Computer Solutions

 **MRV**

 **PERKINS**

 **PERFORMANCE TECHNOLOGIES**

 **sentinelle MEDICAL**

 **Adimec**
Excellence in Imaging

 **BIOTRONIK**
excellence for life

 **ONELAN**
Digital Signage

 **ELBAU**
Elektronik Bauelemente GmbH Berlin

 **Omnitron Systems Technology, Inc.**



 **icron**

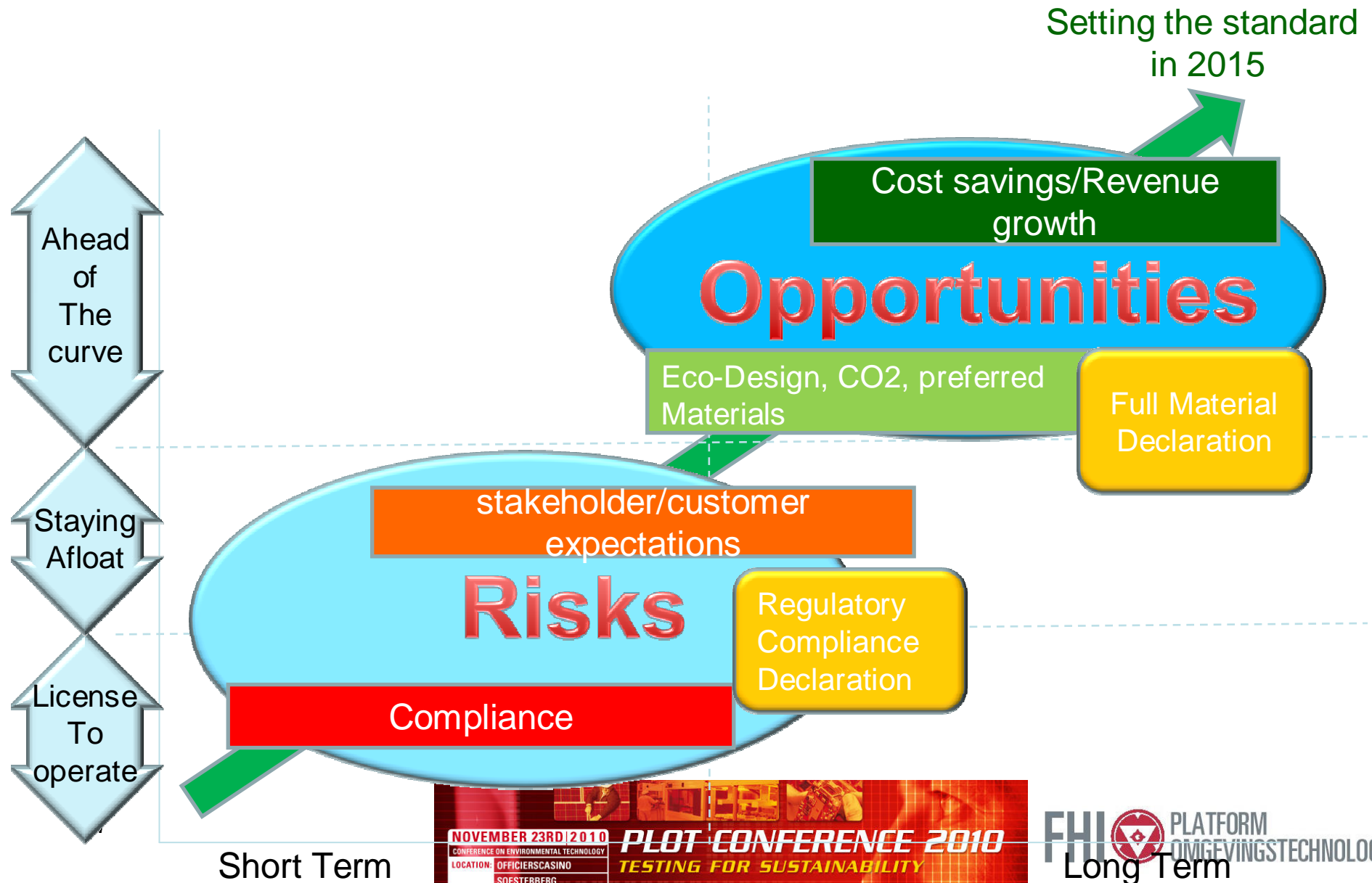
 **NEWCOMB**
SPRING of CANADA

 **CWC**
Circuit Works Corporation

 **scene double**



BOMcheck: from risk to opportunities roadmap



Legal duty of EU suppliers to provide SVHC information:

Any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1 % weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

Tech-Clarity survey amongst 300 electronics companies, 2009

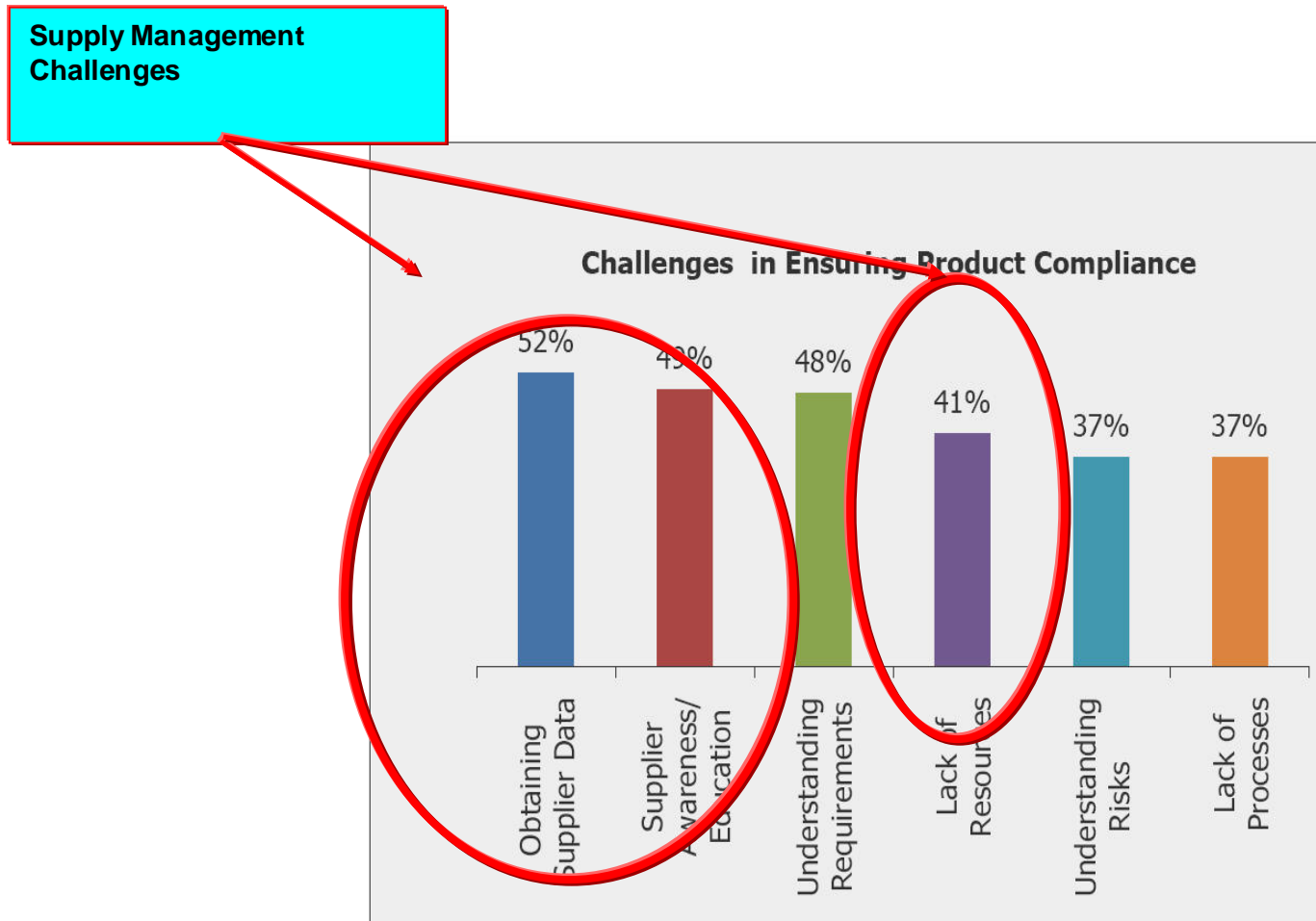


Figure 2: Challenges in Ensuring Product Compliance

Video



Philips request to suppliers

1.

- Sign Annex
 - confirm compliance with Philips Regulated Substances List and make declarations in BOMcheck

2.

- Attend BOMcheck introduction webinar

3.

- Buy BOMcheck license

4.

- Attend BOMcheck expert webinar

5.

- Make BOMcheck declarations
 - Preference for FMD. Priority: ROHS, SVHC, PVC, and BFR

How to find out which substances are in my product?

Focus on relevant parts

- SVHC is not relevant for parts or materials which are <0.1% of total weight of the article!

BOMcheck guidance

- Follow the BOMcheck guidance and eliminate substances

Ask your materials expert

- Your plastics experts or metal experts can eliminate or confirm presence of substances

Ask your supplier

- Cascade the BOMcheck request to your relevant supplier
- Make sure you are able to carry out the mapping, or use "self-declaration"

Testing

- Use test house, such as SGS, Intertek, for ONLY those substances you are not sure about
- Attach the test report to the declaration

Support for BOMcheck roll out

- Hotline support:
 - Environ: www.bomcheck.net/contact
 - Philips BOMcheck Support Centre:
 - Email: bomcheck.apac@philips.com or bomcheck@philips.com
 - Phone: +86 571 8793 0464 or +48 42 291 8140
- Internet/user manual/video:
 - www.philips.com/suppliers
 - www.bomcheck.net/suppliers
- Training:
 - Environ: Bi-weekly webinars
 - Philips: face-to-face training for suppliers



Challenges & learnings of BOMcheck roll out

Challenges	Learnings
<p>1. <u>Lack of chemical knowledge</u></p> <ul style="list-style-type: none">• Need for guidance on SVHCs	<p>1. <u>Focus on priority suppliers</u></p> <ul style="list-style-type: none">• Plastics, cables, finished articles• Low risk suppliers: make own-declaration
<p>2. <u>Language support</u></p> <ul style="list-style-type: none">• Chinese, German, Japanese, etc.	<p>2. <u>Focus on priority substances</u></p> <ul style="list-style-type: none">• SVHC, ROHS, PVC, BFR. FMD later
<p>3. <u>First mover syndrome</u></p> <ul style="list-style-type: none">• “Philips is the only one asking”• “You have to pay for this information”	<p>3. <u>Internal organisation</u></p> <ul style="list-style-type: none">• Engage supplier account managers• Central support organization

Conclusion

- Online database is the future for substances management in the electronics sector
 - Nobody can manage spreadsheets and paper anymore
- Promulgation of different online dbases is not desirable
 - Harmonisation reduces administrative burden and increases knowledge/reputation of the entire sector
- BOMcheck can be the industry standard that meet all ambitions:
 - Risk management: Regulatory Compliance Declaration
 - Eco-design: Full Material Declaration



PHILIPS

