



Termőföldtől az asztalig

Background & Difficulties In decision making of active substances

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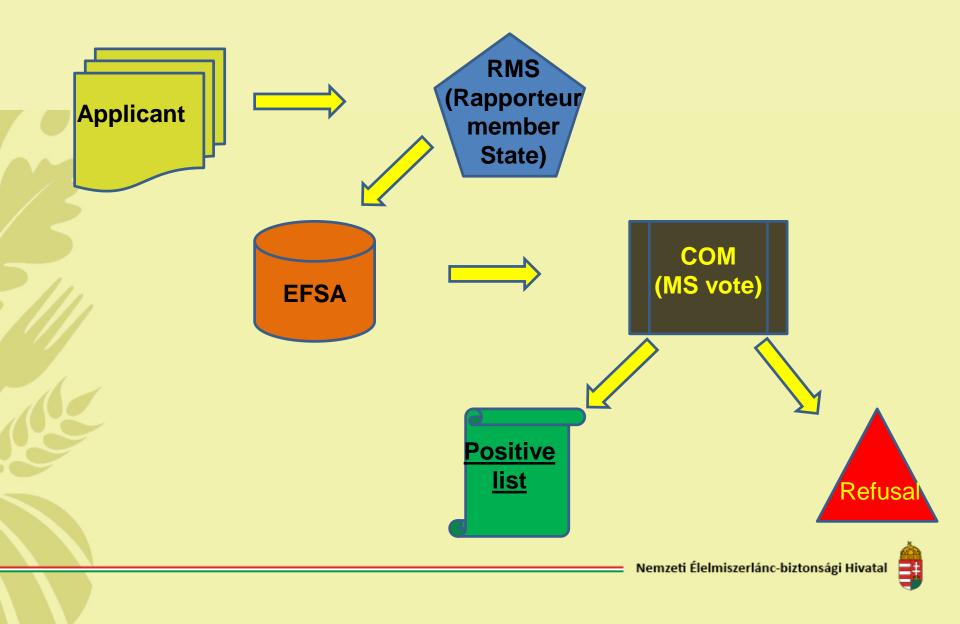
National Food Chain Safety Office

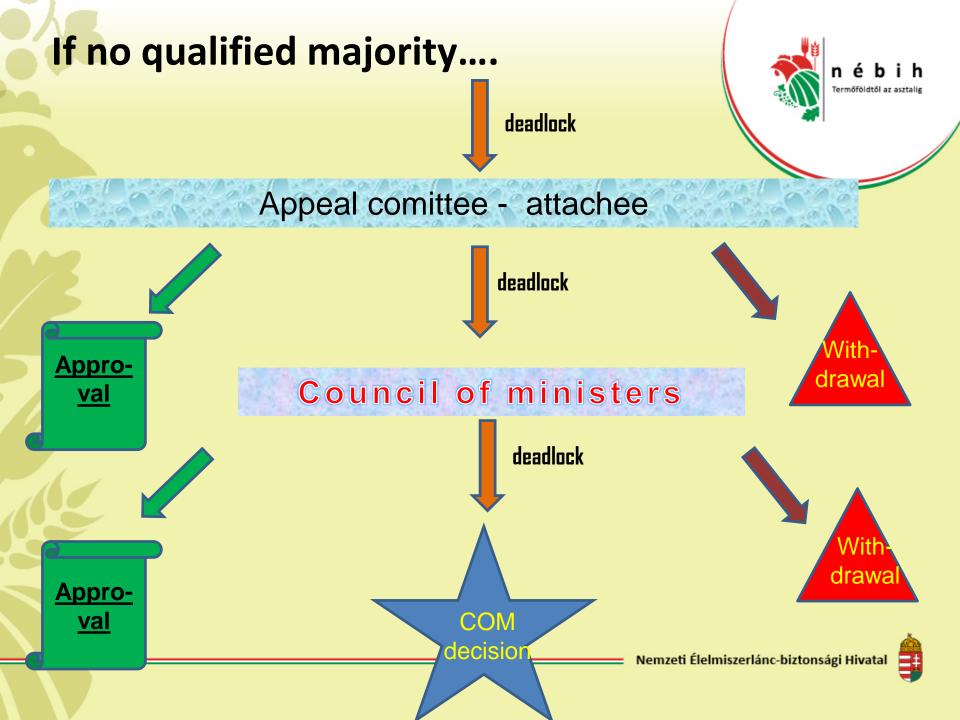
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Nemzeti Élelmiszerlánc-biztonsági Hivatal

CEUREG XX Brno 2016-10-10

PPP can be registered in EU member states only if the active substance is taken to the positive list





Updated data requirements (D

Old DR 544/2011/EU For dossiers submitted for renewal (AIR I & II) and new approval until 31.12.2013







Updated EFSA Guidances during the review



Ecotoxicity:

- Aquatic GD 2015
- GD on birds and mammals 2015
- Draft GD on Bees officially not accepted !
 ...but used by EFSA as 'new scientific evidence' (1st Tier) (not harmonised approach)

Human toxicity:

- Updated OECD testing guidelines, EFSA Scientific opinion 2011 on genotox. testing strategies
- Operators, workers, residents and bystanders GD 2014
- Dermal absorption GD 2014

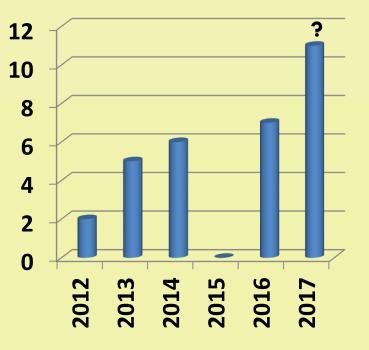


Active substance withdrawals

 2012: diphenylamine , novaluron
 2013: didecyldimethylammonium chloride – bitertanol, flusilasole, potassium-iodide and potassium-thiocyanate

2014 fenbutanin-oxide ethoxysulfuron, oxadiargyl, warfarin, cyfluthrin, carbendazim
2016: isoproturon, triasulfuron, amitrol, tryciclazole 3-decen-2-one, (Z,Z,Z,Z)-7,13,16,19-Docosatetraen-1-yl isobutyrate,,

(Z)-13-Hexadecen-11-yn-1-yl acetate,



2017: Further negative conclusions published by EFSA for AIRII and AIRIII ASs:
diquat, linuron, maleic-hydrazide, fenamidone, isoxaflutole, imazamox,
2,4-DB, famoxadone, mesotrione, pendimethalin, picoxystrobin...

Drastic increase in the near future ?



Serious restricions



Chlorpyrifos – accute consumer risk MRL to LOD – more crops deleted

(apple, pear, cabbage, savoy cabbage, brussels sprouts, cauliflower, broccoli, grapes)

Neonicotinoides – use restrictions referring to bee health

Glyphosate – withdrawal of PPPs with tallowamine Reasons for negative EFSA conclusions on a.s. dossiers



- 2015/2016: EFSA changes towards a more conservative approach
 RMS → ← EFSA
- Weight of evidence approach not followed
- Endpoints are not set referring to lack of data
- EFSA does not accept new data after application
- New scientific results → new GDs from what date to be applied? (dossier preparation is before implementation date, how to conduct new studies?)
- Genotoxicity and new bee GD are two critical issues



Genotoxicity

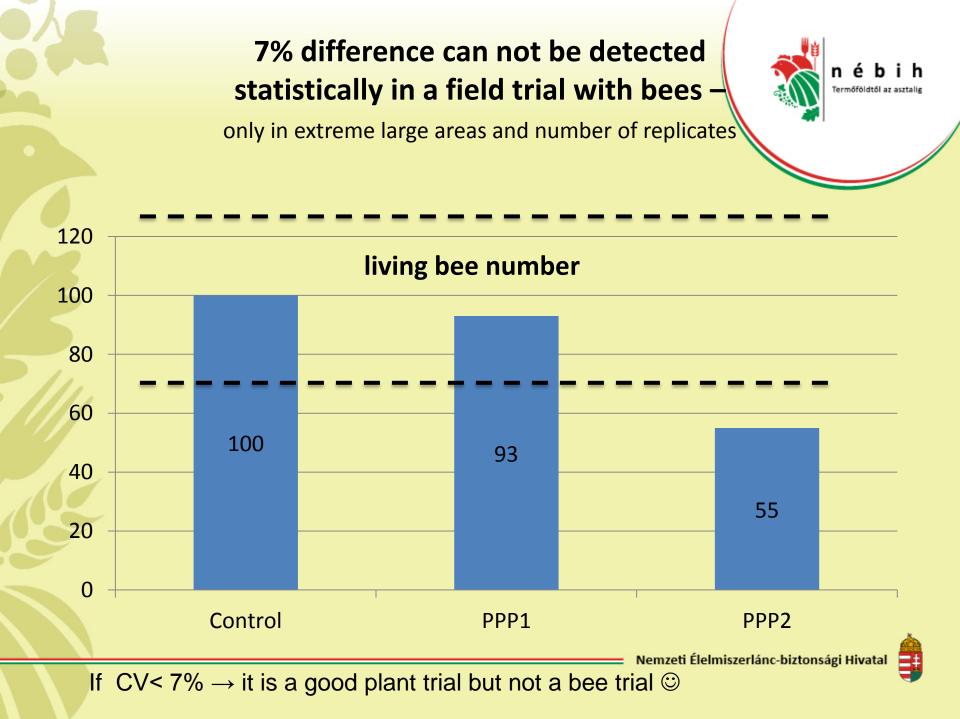
different approach between RMS and EFSA EFSA needs new in vivo trials but no way for submission COM will send a mandate to EFSA for clarifying the differences in conclusions till then no decisions

Bee GD

more detailed GD was necessary
(recent GD is too short and weak)
irrealistic requirements – 7% protection goal
if Tier 1 fails, almost no chance for field trials



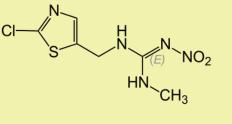




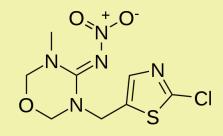
Politically influenced decisions 1 Neonicotinoids



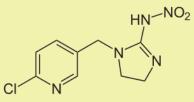
Clothianidin (Bayer)



• Thiametoxam (Syngenta)



Imidacloprid (Syngenta)

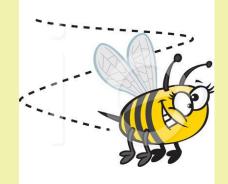


SCIENCE conclusions



After neonic feeding with neo concentration occuring on fields:

- Decrease in number of queens
- Disturbance of orientation ability



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- Reproductibility of trials is questionable
- Feeding was carried out in laboratory , not in field !



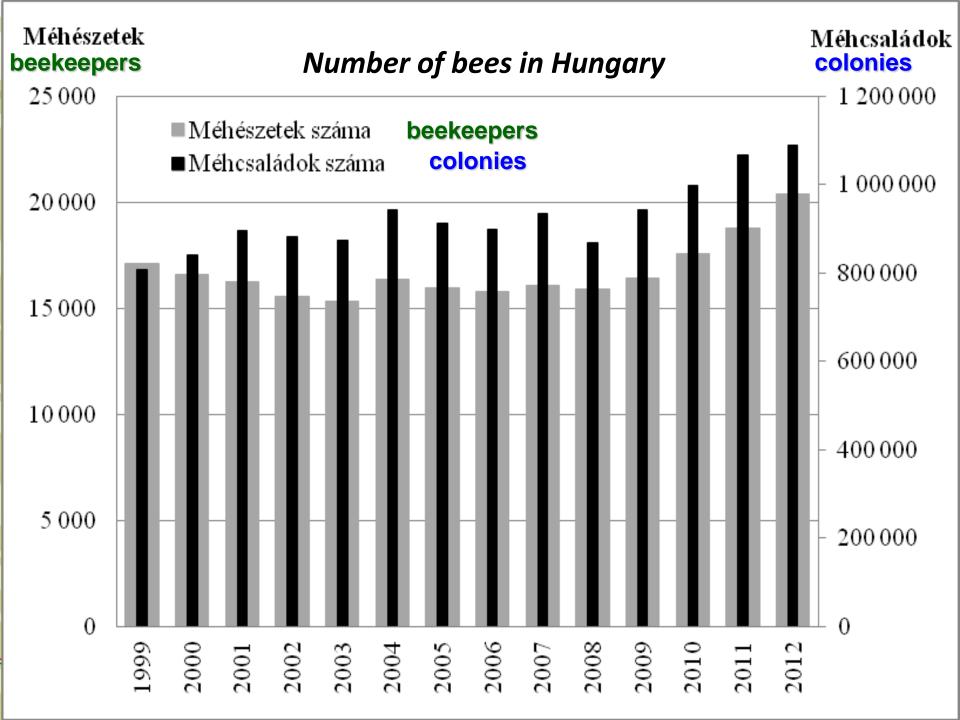
485/2013/EU regulation



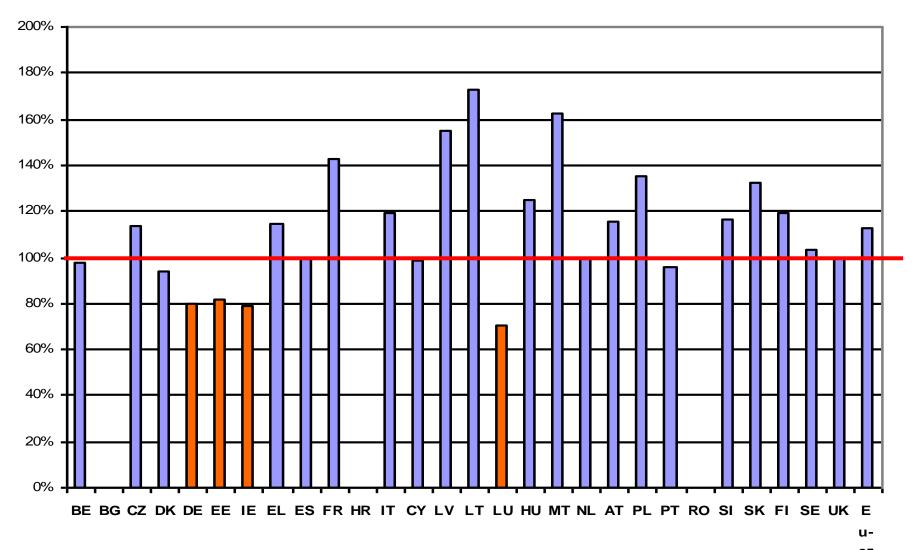
in lack of qualified majority of MSs

- Since 1st December 2013 seed dressing and use of such seeds is prohibited in spring cereals and all bee-attractive crops (e.g. sunflower, maize, rape)
- Soil desinfection is prohibited in attractive crops
- No evidence for harmful effect in field



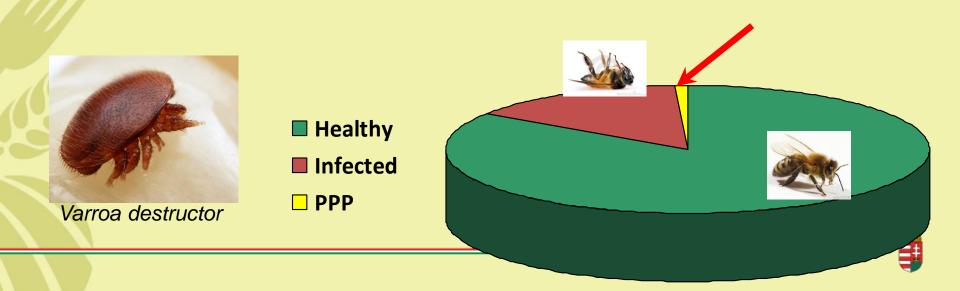


Number of bee colonies in EU 25 between 2004-2013



Why did we oppose restrictions?

- Bee density is highest in Europe >1 100 000 colonies, 12 hives /km²
- Number of bee mortality : 150-200.000 colonies / year
- 5-10 % of mortality is caused by pesticides (0,5-1% of total hives)
- Reasons are mostly inappropriate use
- Most of mortality is caused by pests, deseases (Varroa mite, nosema disease)

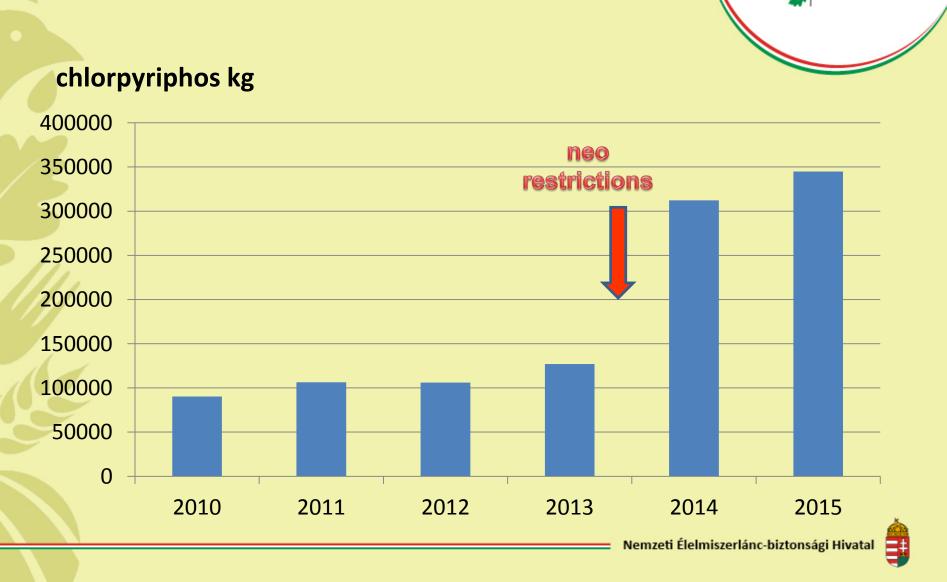


Result of two years without neonics in HU



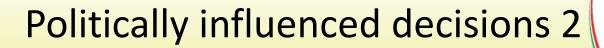
- No emergency use in 2014 and 2015
- No inprovement in bee health more disease problems
- Increase of leaf spray in sunflower, maize and rape
- Extreme increase of chlorpyriphos





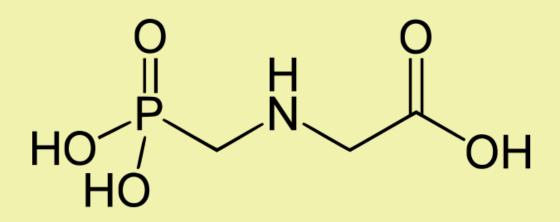
Use of chlorpyriphos in Hungary







GLYPHOSATE



N-(phosphonomethyl)glycine



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Wide spectrum herbicide

nébih

Post-emergent

'Clears all'

Use for cleaning of stubble and non-agricultural lands

Minimum tillage

Use: as isopropil-amine, potassium or ammonium salt spray

Also used as dessiccant





Properties



- Binding to soil granules
- No uptake through root
- Not bioaccumulative, depletes fom body
- Can occure in urine
- Metabolit: amino-methyl-phosphonic acid (AMPA)
- DT 50: 1-2 weeks (but AMPA more months)





GMO



- Effective weed killing of glyphosate tolerant crops
- More spray onto crop !
- Risk of weed resistency



2004 Fejér m. NTSZ

rlánc-biztonsági Hivatal



Renewal of glyphosate



Annex I. inclusion: 2002.07.01 Expiry: 2012.06.30 \rightarrow 2015.12.31 \rightarrow 2016.06.30 RMS: Germany co-RMS: Slovakia Dossier submission : 2012. May RMS assessment (RAR): 2013. December 20. Member state comments : 2014. Jan-Apr Supplementary data, evaluation



Unexpected turn in renewal



International Agency for Research on Cancer



IARC 2015.03. :(probable carcinogenity, Carc.Cat. 2 = EU Carc1B ekv.) Expert meeting (EFSA + MSs): 2015. September RAR addenda: 2015. October EFSA summary: 2015. November 12. carcinogenity not justified and no other cutoff reason

27 MSs agree with EFSA opinion



EFSA & IARC conclusions

ECHA

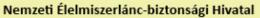


EFSA

- GLP studies
- Relevant scientific articles
- Legally binding data requirements and assesment principles

IARC

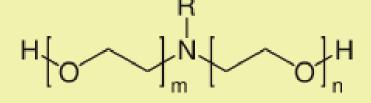
- Based on articles (nonreproducible, missing methodics etc.)
- Not known assesment criteria
- Uncontrollable studies with unproportional weight











- Properties of PPPs are much worse than of a.s.
- Reason: POE tallow-amine
- Plan: ban of this additive in glyphosate PPPs



Green lobby (Greenpeace, PAN etc.)





IARC study Increasing use glyphosate in beer glyphosate in urine 1000 I/day?



Attempts for and against renewal

2016. March 7-8. SCOPAFF

COM proposal: renewal for 15 years, ban of tallow-amine

No qualified majority

2016.April 5. European Parliament

Declaration for withdrawing COM proposal

2016. May 16.

Joint Meeting for Pesticide Residues (JMPR) - glyphosate is not carcinogenic

2016. May 17.

Green NGOs call for ignoring JMPR opinion







Attempts for and against renewal



2016. May 18-19. SCOPAFF

COM proposal : renewal for 15 years, ban of tallow-amine

- -No qualified majority
- 2016. June 6. SCOPAFF
- COM proposal : Prolongation till end of 2017.
- No qualified majority
- 2016. June 24. Appeal Comittee
- COM proposal : Prolongation till end of 2017.
- No qualified majority
- 2016. June 27. SC Plant Health
- **COM proposal : restriction of tallow-amine**
- -No qualified majority (64,69% instead of 65%) voting postponed



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Decision



- 2016. June 29. (1 day before expiry)
- COM prolongation till end of 2017 or 6 months after ECHA RAC opinion (2016/1056 EU r.)
- 2016.July 11-12 SCOPAFF voting on restrictions2016. August 1.
- COM regulation about restrictions (2016/1313 EU)
 - 1. Ban of POE tallow-amine (CAS 61791-26-2)
 - 2. Dessiccation is not good agricultural practice
 - 3. Attention to ground water

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Health reasons?



- 3 evaluations excluded carcinogenity: RMS, EFSA, JMPR
- Real reason for fight against the substance:

If no glyphosate, fight against GMO production can stregthen



Glyphosate in Hungary



• Authorisation certificates

37 basic + 16 clone (2nd brand name) = $\Sigma 53$

- With POE tallow-amine
- 15 basic + 10 clone = **Σ** 25

PPPs with POE tallow-amine will be withdrawn in November 2016

Grace period: 6 month trade + 12 month use (1107/2009 EC r. Art. 46.)



Change of tallow-amine in existing PPP? 'minor change' GD

- Under 0,5 % yes (2 PPPs in HU)
- Under 10% : (1 PPP in HU)
 phys-chem data for new composition
 tox-ecotox data during renewal
- Above 10% new authorization





Revision of certificates



- Withdrawal of POE tallow-amine containing products
- Ban of use on playgrounds, hospitals and other sensitive areas
- Ban of dessiccation (diquat nonrenewal?)
- Weed killing before harvest?



Renewal in 2017?



ECHA assessment

Positive vote of Germany can decide

In case of deadlock – COM decides





Moving towards successful agriculture....

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Photo: Greenfo