



FROM NATURE FOR NATURE

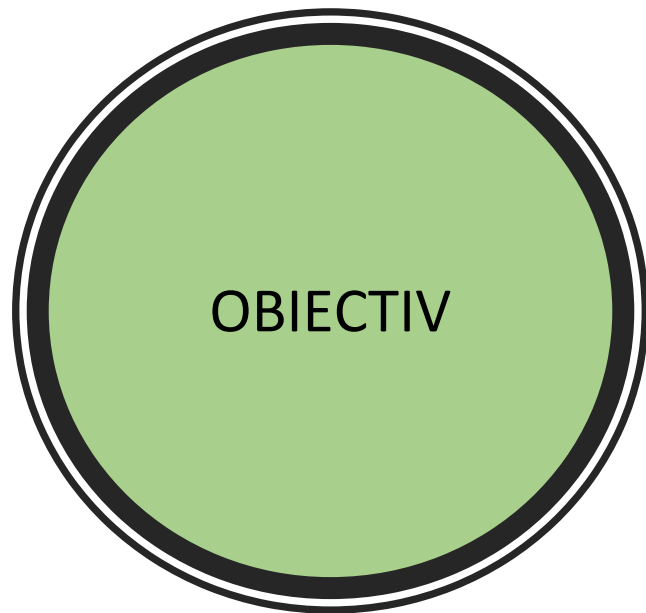
Valibiotic



Detaliile de cercetare

- Finantat de Agentia Austriaca de Promovare a Cercetarii FFG
- Parteneri de Proiect:
 - Prof. Lemmens (Departament de Agrarbiotehnologie, IFA Tulln)
 - Nourivit GmbH
- Durata proiectului: 01.04.2017 – 31.03.2021
- Buget: 1.2 M €
- Obiectiv: dezvoltarea stimulentului biologic pentru prevenirea ciupercii Fusarium





***Consolidarea plantelor
pentru prevenirea bolilor
fungice***

Amenințarea globală - contaminarea cu micotoxine (Ian – Sept 2017)

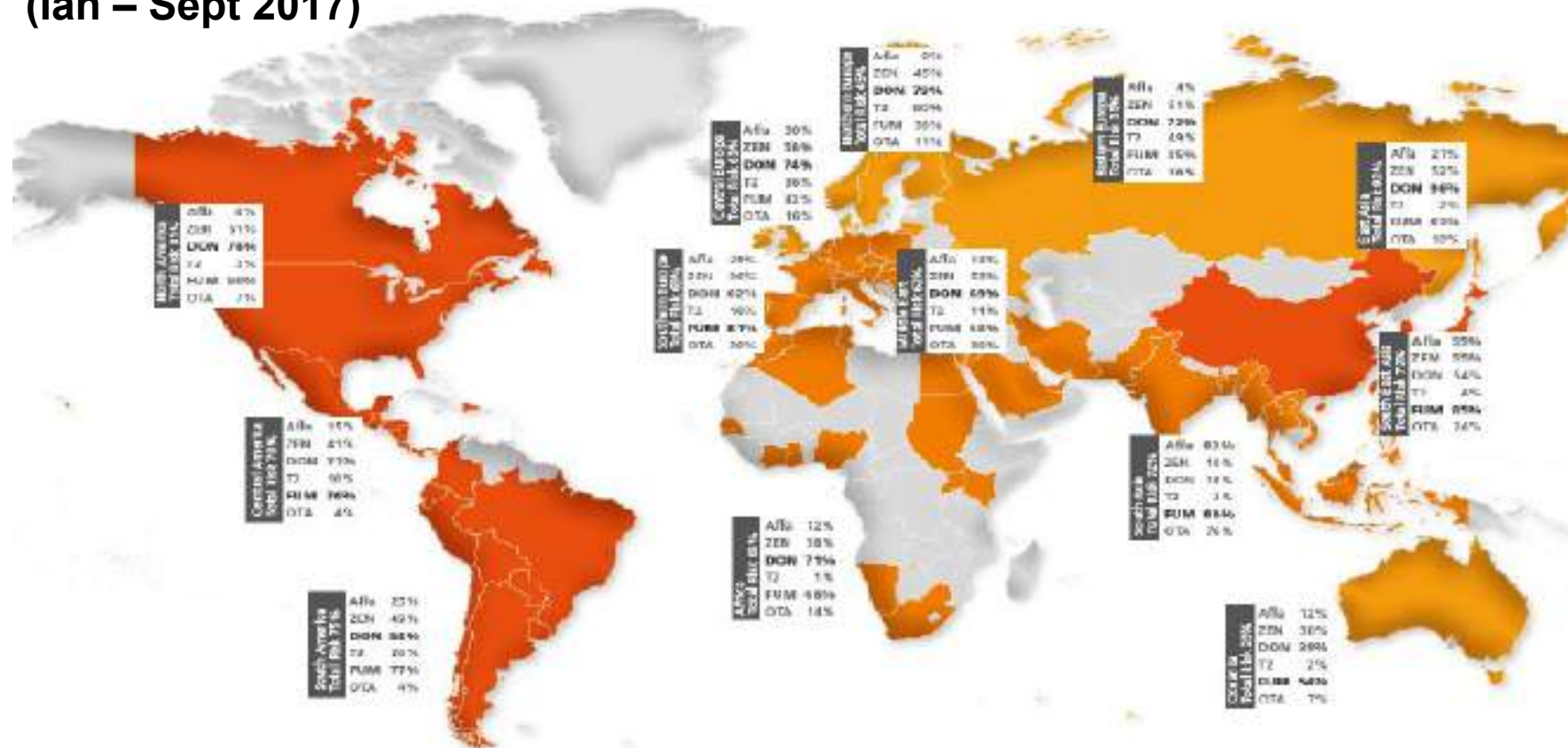


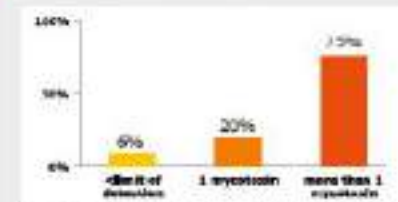
Figure 3. Global map of mycotoxin occurrence and risk in different regions.

Legend

- Moderate risk: 0-25% of samples above risk threshold
- High risk: 26-50% of samples above risk threshold
- Severe risk: 51-75% of samples above risk threshold
- Extreme risk: 76-100% of samples above risk threshold
- No samples tested



Co-contamination



Number of mycotoxins per sample based on samples tested for 2 or more mycotoxins.

Risk Level

The risk level expresses the percentage of samples with at least one mycotoxin above the threshold level (below in parts per billion (ppb)). A severe risk level indicates that >50% of samples may represent a risk to productivity or disease susceptibility.

Mycotoxin	20%	50%	1-2	500	1000
ppb	2	50	150	50	500

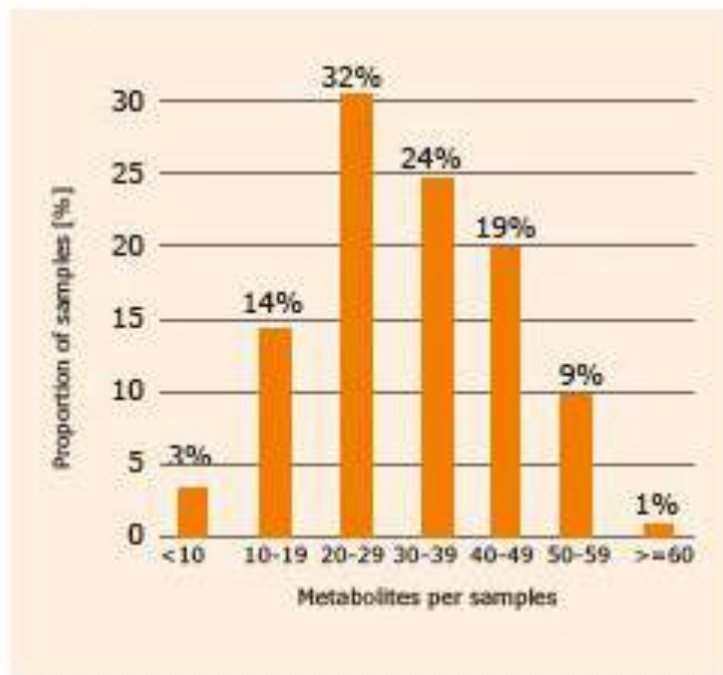
DISCLAIMER: While we strive to provide the most accurate and up-to-date information, we do not warrant the accuracy or completeness of the information. The data is for informational purposes only and should not be used for any other purpose. However, the data provides more insight into the range and level of mycotoxins which can be found in different areas and is not intended to be used for any other purpose.

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MTX multiplu - apartitie (rezultate din 2017)



Contaminarea cu MTX - aparitia

% samples above threshold	2011		2012		2013		2014		2015		2016		2017		2018		Average	
	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA	DON	ZEA
North Europe	71	25	86	71	87	34	69	33	76	27	77	46	79	45	66	42	76	40
Central Europe	64	41	68	50	66	26	76	61	84	75	73	51	66	45	64	56	70	51
East Europe	61	46	67	42	56	23	62	71	51	39	53	33	71	51	66	53	61	45
South Europe	36	14	51	43	50	18	56	53	66	61	46	35	53	33	58	67	52	41
North America	50	14	37	26	33	9	58	30	67	30	58	37	75	37	67	34	56	27
South America	21	28	21	26	33	39	16	36	100	14	69	46	82	51	67	48	51	36
Central America											70	43	67	38	70	10	69	30
Ozeania	49	26	45	13	24	19	25	11	24	27	27	22	36	28	47	19	35	21
East Asia	83	63	82	58	79	57	79	62	88	59	92	56	95	54	82	55	85	58
S/E Asia	34	37	40	37	34	49	36	43	60	63	57	46	50	52	68	51	47	47
South Asia	22	14	19	19	36	26	11	23	20	24	46	21	14	12	33	22	25	20
Central Asia											33	42			90	77	62	60

- **Grau: intre \$0.69 – 1.38 miliarde pierderi anuale**
- **Porumb: intre \$1.33 – 2.66 miliarde pierderi anuale**

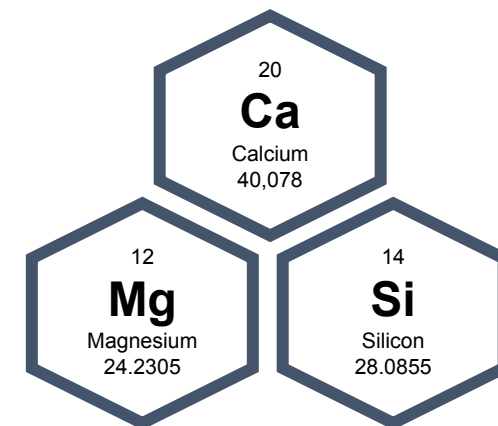
Contaminarea cu MTX – implicarile economice

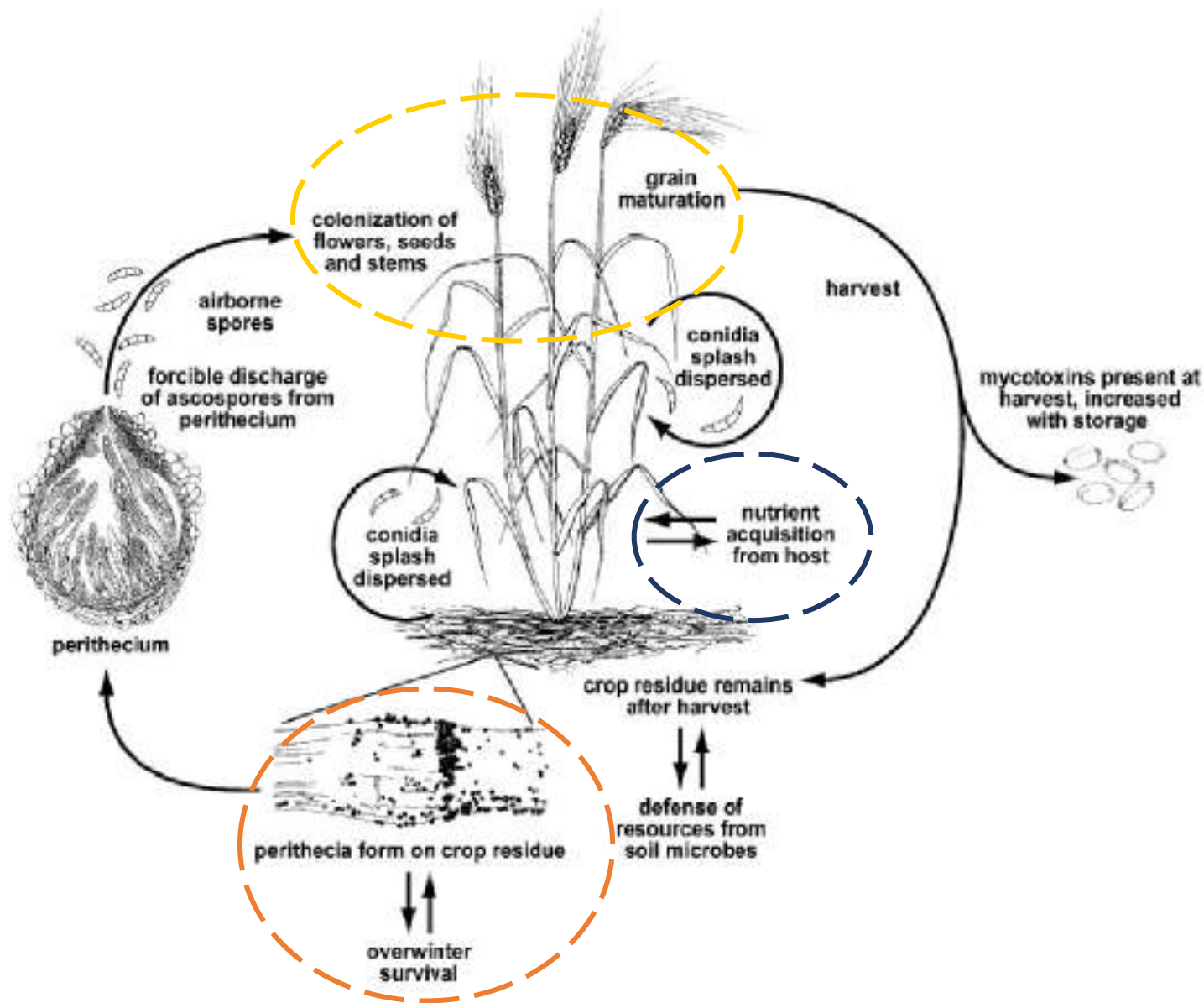
Grau: intre \$0.69 – 1.38 miliarde pierderi anuale

Porumb: intre \$1.33 – 2.66 miliarde pierderi anuale

In total, aproximativ 64 de milioane de hectare de grau sunt eligibile pentru tratamentul cu produse valbiotice din tarile vizate.

In total, aproximativ 40 de milioane de hectare de porumb sunt eligibile pentru tratamentul cu valbiotice din tarile vizate.





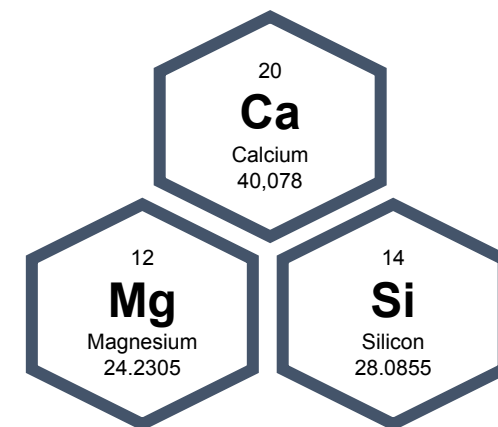
- O degradare mai rapida a reziduurilor din culturi**
Inhibarea activa a formarii sporilor
Concurenta pentru nutrienti si inducerea rezistentei sistemice
Consolidarea peretelui celular al plantei

Valibiotic forte

- Amestec lichid de diferite microorganisme
6 tulpini microbiene diferite

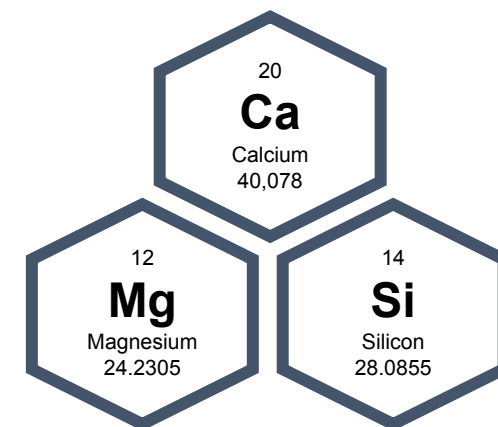
Principalele caracteristici ale produsului:

- Cresterea si/sau asigurarea calitatii culturilor
- Inducerea rezistentei sistemice la bolile fungice
Concurenta cu ciuperca fusarium pentru nutrientii prezenti in frunze
- Microorganisme izolate natural si NU modificate genetic (OMG-uri)
Utilizarea de Valibiotic forte atat in agricultura conventionala, cat si in cea ecologica



Valibiotic *Ca lichid*

- Formularea lichidului de calciu (macro-element) prin aplicarea cationilor cu incarcare dubla, cum ar fi calciul direct pe frunza plantei care duce la o absorbtie imbunatatita, deoarece calciul este prezent in cantitati slabe in sistemul radicular. Calciul sustine planta in timpul cresterii si creste rezistenta plantei la influentele adverse asupra mediului (ex: seceta)
Calciul intareste peretii celulari ai plantei si, prin urmare, este mai rezistenta la deteriorarea cauzata de ciuperci



Valibiotic

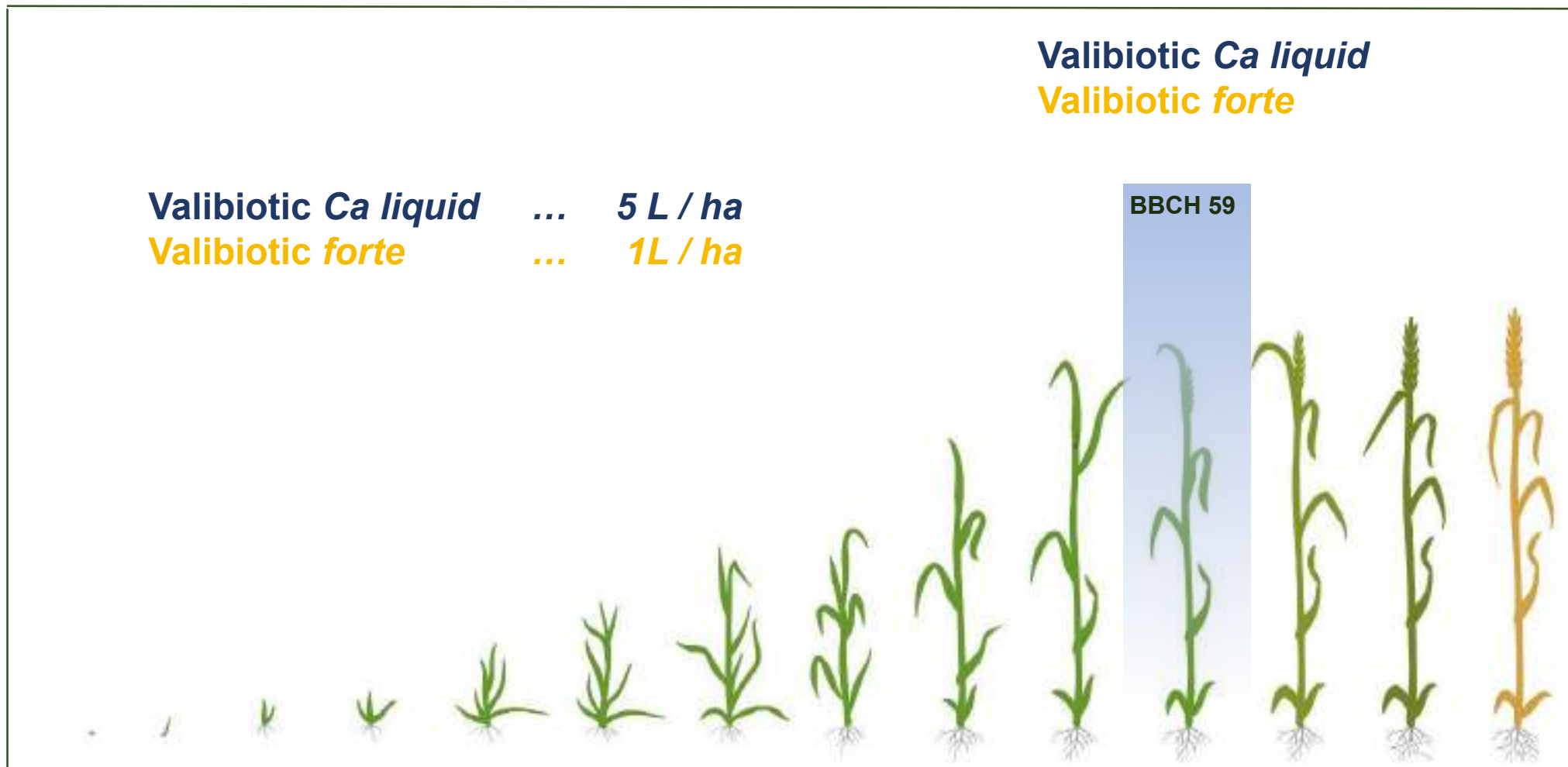


*Consolideaza plantele pentru a
preveni bolile fungice*



Valibiotic

Aplicarea pe grau Fusarium



Valibiotic

Aplicarea pe grau - Fusarium

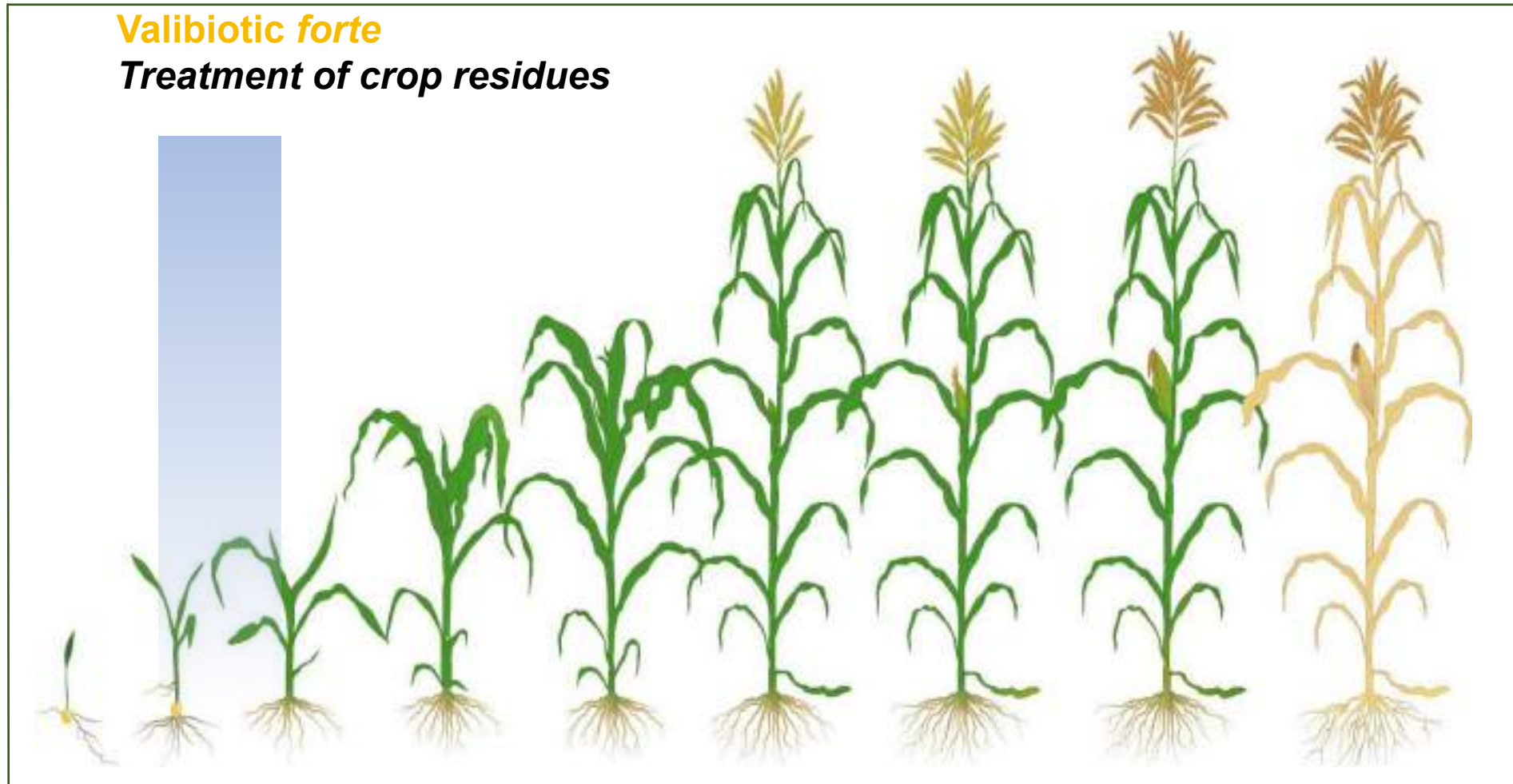


Valibiotic

Aplicarea pe porumb - Fusarium

Valibiotic forte ... 1L / ha

Valibiotic forte
Treatment of crop residues



healthy plant growth - healthy livestock



Valibiotic

Aplicarea in podgorii – Oidium & Peronospora

**Plan de tratament:
Intre 5 si 8 aplicari**

Valibiotic Ca liquid ... 2 L / ha

Valibiotic forte ... 1L / ha

(Sulf ... 1kg / ha)

**Fara cupru
Fara fungicide**

Valibiotic Weinbau Steiger (17-07-2018)



Plan de tratament:

Valibiotic Ca liquid ...	2 L / ha
Valibiotic forte ...	1 L / ha
(sulf ...	1 kg / ha)
Fara cupru	
Fara fungicide	





Valibiotic

Aplicare legume

Plan de tratament

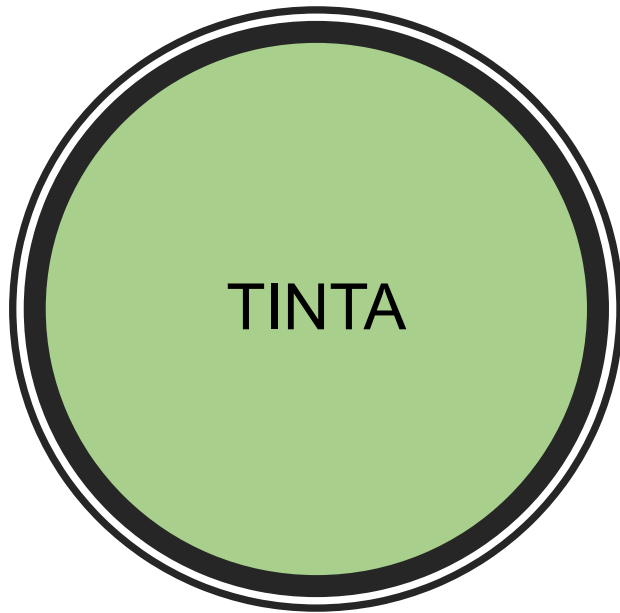
De la 1 pana la 4 aplicari (fara tratamente curative – inlocuieste tratamentele fungicide)

Valibiotic Ca liquid ... 2 L / ha

Valibiotic forte ... 1L / ha

(Sulf ... 1kg / ha)

Fara cupru
Fara fungicide



Inlocuirea tratamentelor cu fungicide impotriva bolilor fungice