

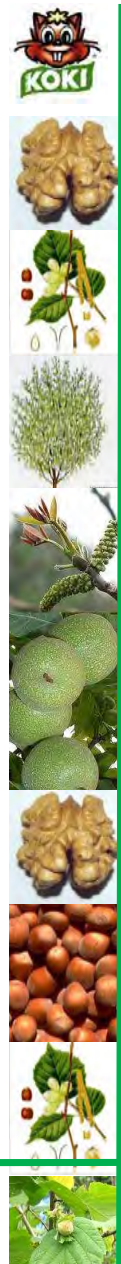
UNICOQUE
noisettes et noix de France

La produzione della nociola francese



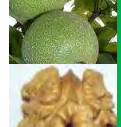
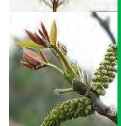
Bruno SAPHY
Coopérative UNICOQUE
Responsable de développement





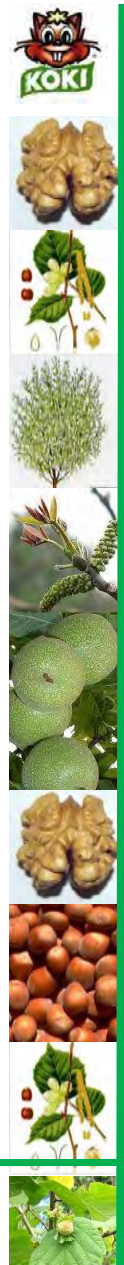
Ciao a tutti i produttori e tutti gli organizzatori





una storia molto recente
nell'agricoltura francese.



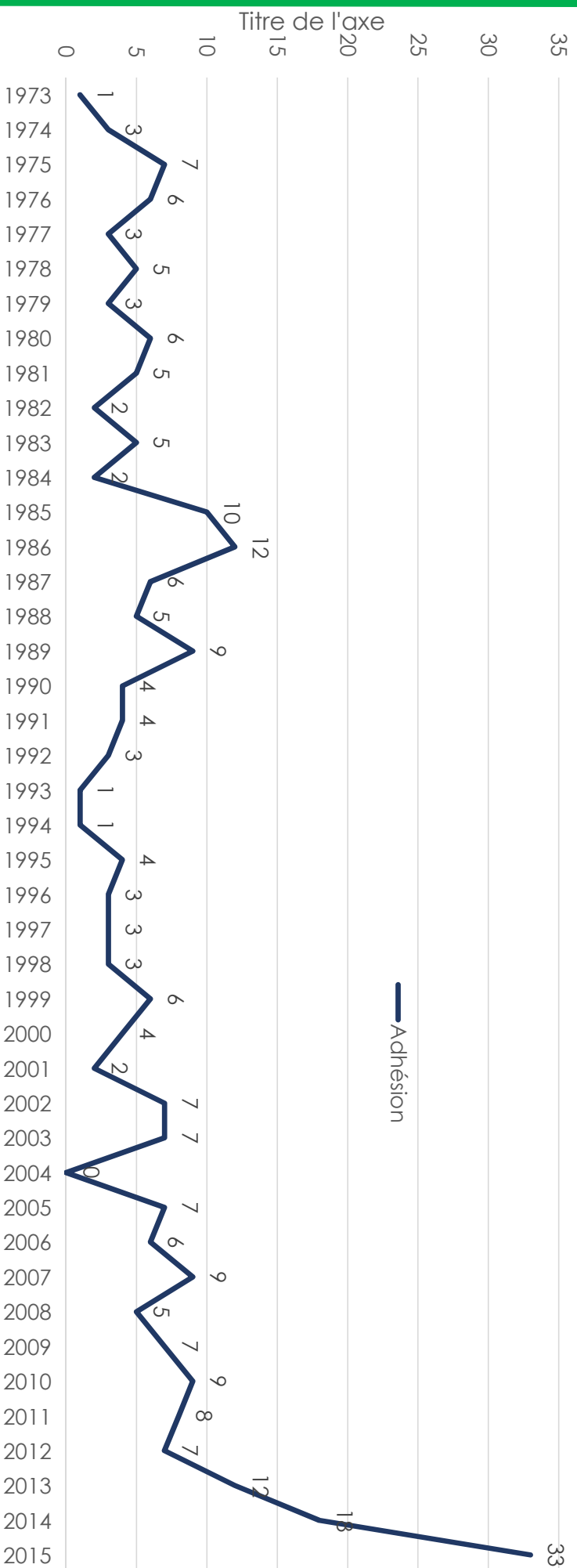


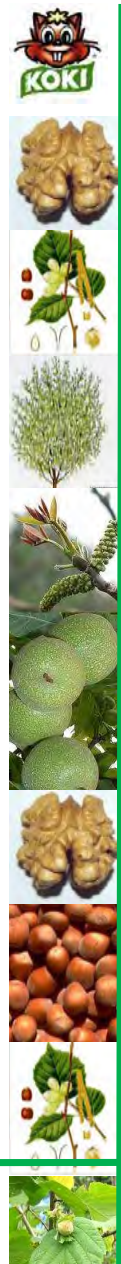
La coltivazione del noccioloeto presentava questi vantaggi





263 productores





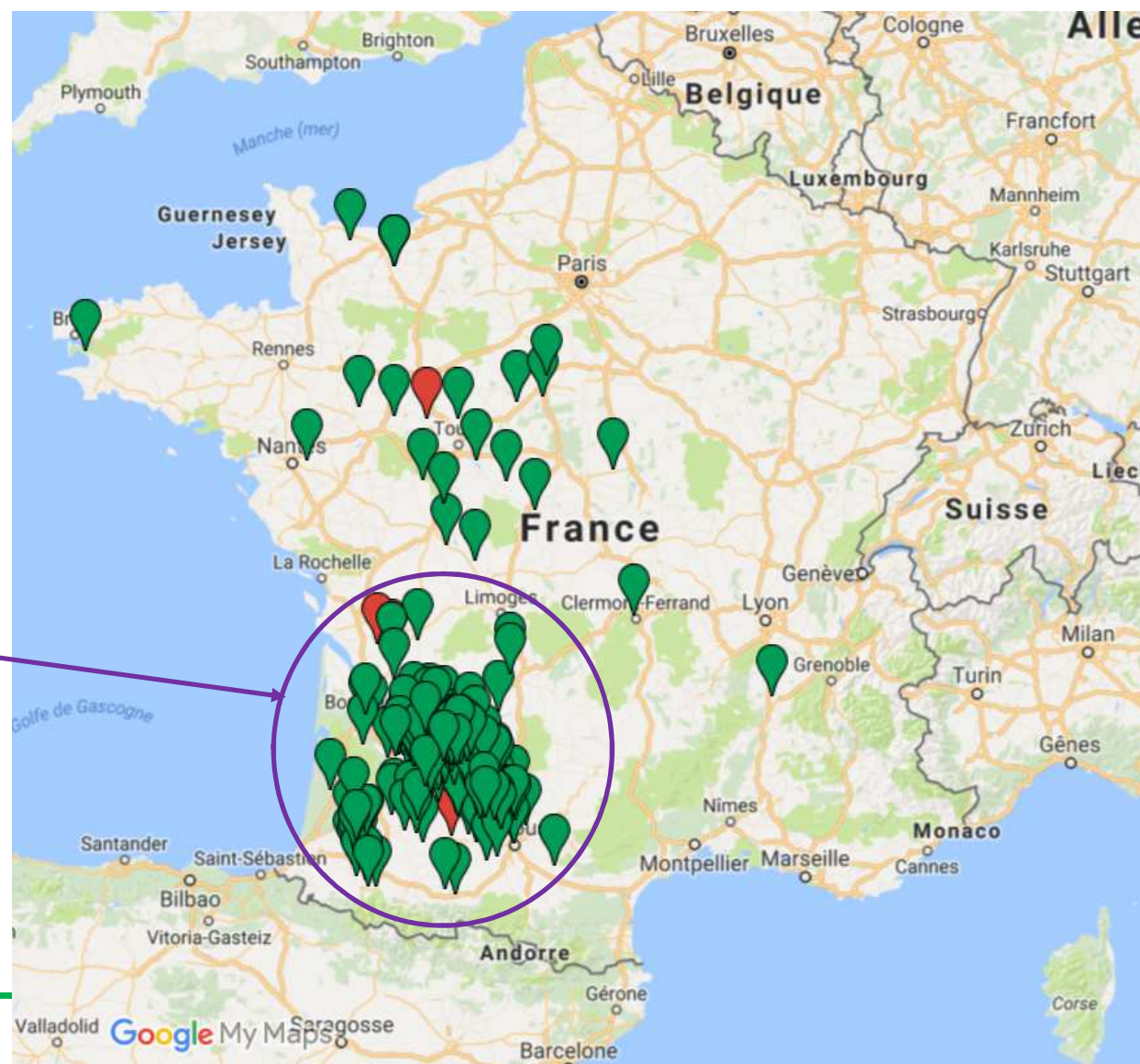
La zona di produzione

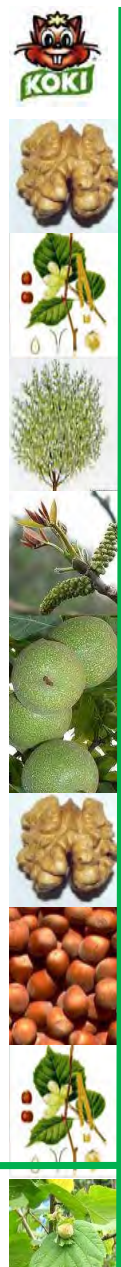
300 produttori

263 prod nocciolo

37 prod nocce

**80% dei produttori nel
sud-ovest**





aziende agricole

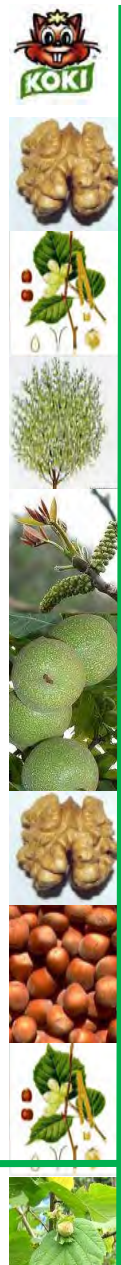
Superficie nocciole

Mini : **5 ha**

Media : **19 ha**

Maxi : **93 ha**

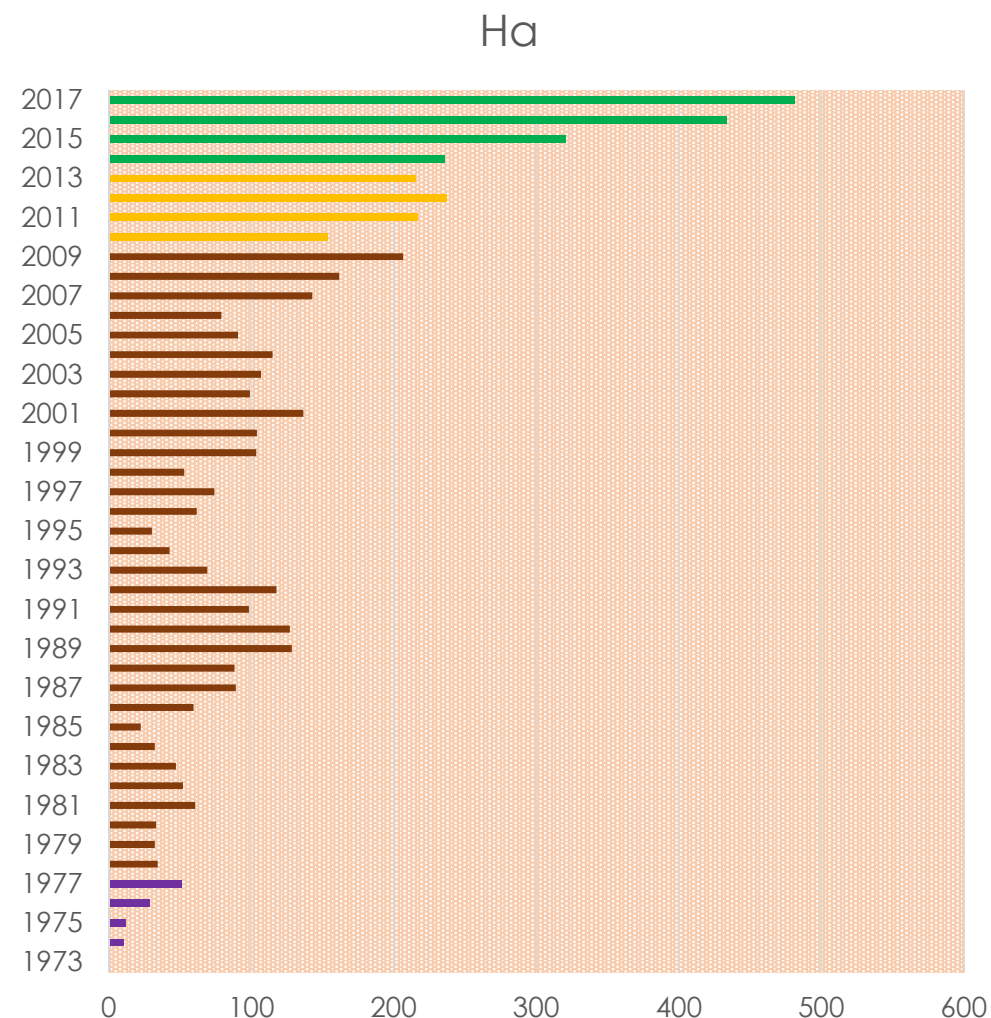
	NB		HA	
moins 10 ha	83	32%	534	10%
10 à 20	79	30%	1162	23%
20 à 30	52	20%	1265	25%
30 à 40	25	10%	838	16%
40 à 50	13	5%	580	11%
50 à 60	5	2%	265	5%
60 à 70	3	1%	189	4%
plus 70 ha	3	1%	252	5%
totale	263		5085	

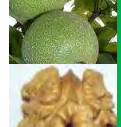
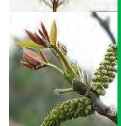


la piramide di età frutteti nocciole

giovani frutteti = **1471 ha 29%**
 entrano produzione = **823 ha 16 %**
 Pleine production = **2666 ha 52%**
 Vieux vergers = **138 ha 3%**
 totale = **5098 ha**

Serv sziluppo : unicoque





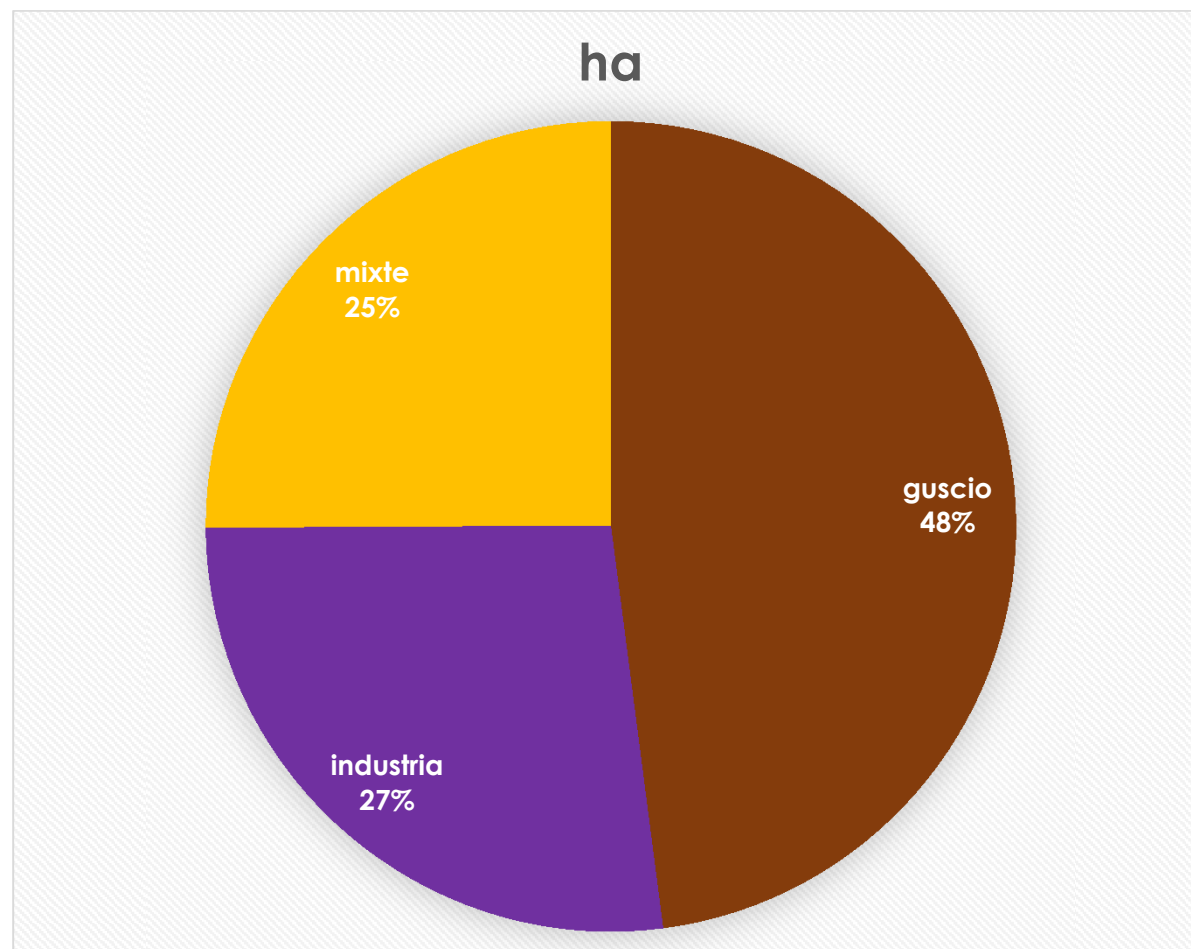
Superficie per tipo varieta

Guscio = 2444 ha

Industria = 1375 ha

Mixte = 1279 ha

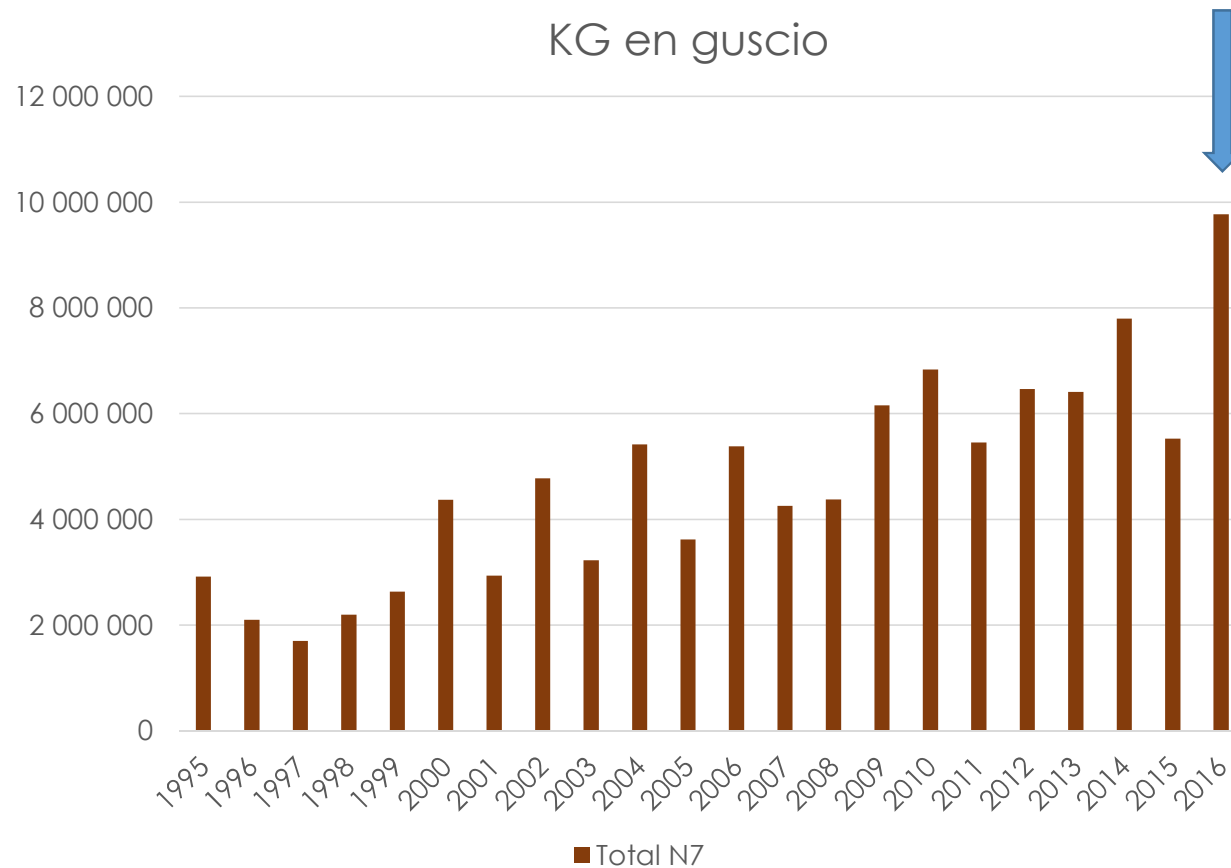
Total = 5098 ha

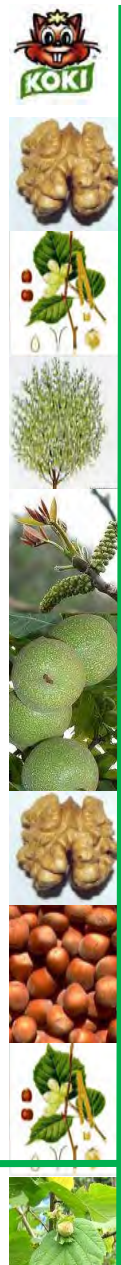




Production de noisettes

La produzione di
nocciole in guscio
attuale si aggira sulle
10.000 tonnellate
nel 2016.



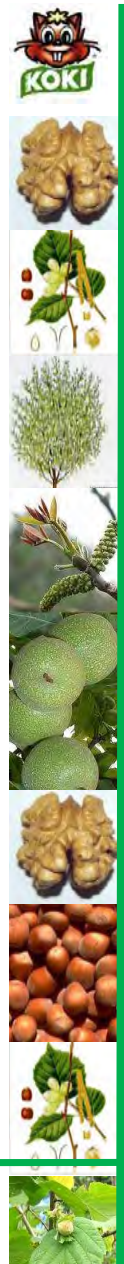


2 due strutture
principale

**Il 95% dei produttori
francesi aderire a 2
strutture che
organizzano il settore**

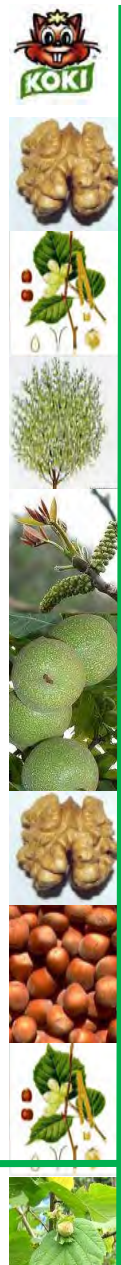
UNICOQUE
noisettes et noix de France





UNICOQUE coop ruoli economiche



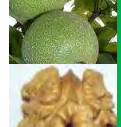
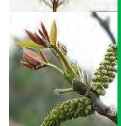


Fabrica UNICOQUE 47290 Cancon

Sito attuale

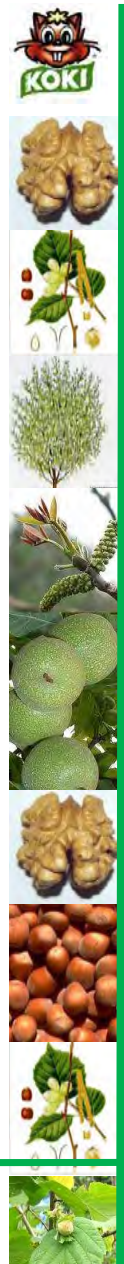
Capitale delle nocciole francese !





**65% sul mercato
europeo dei
nocciole en guscio**



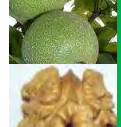
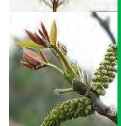


35% della produzione
viene venduta sgusciata
ai industriale



nutella
FERRERO

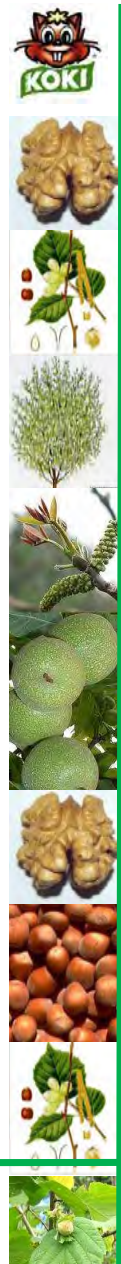




ANPN 5 ruoli

1 di difendere i produttori





ANPN 5 ruoli

sperimentazione e
ricerca

formazione

Expérimentation – Marion MERCADAL

Agrément Bonnes Pratiques d'Expérimentation (BPE) en cours

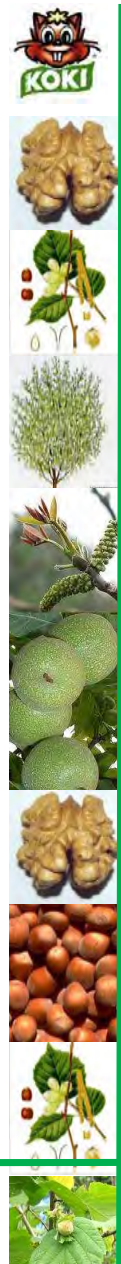
Budget d'expérimentation : ~200 000 euros / an dont 60% des producteurs et pépiniéristes et 40% pour les partenaires financeurs.



Formation – Gwenaél SALAÛN

Agrément VIVEA n° 5486





ANPN 5 ruoli

**Rete di sorveglianza
del territorio**

**Creazione di risorse
idriche**

Réseaux de surveillance et Production raisonnée – Leyla RAMADE
Bulletin de Santé du Végétal



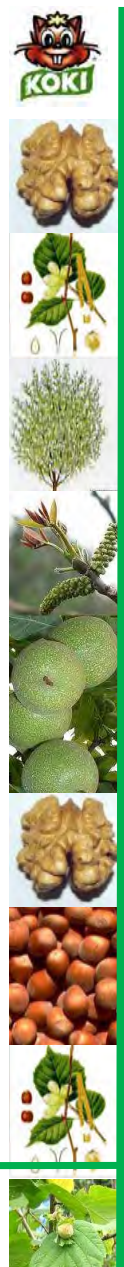
Bureau d'études Lac – Yann BORDES
Agrément Bureau d'études 98e-98d





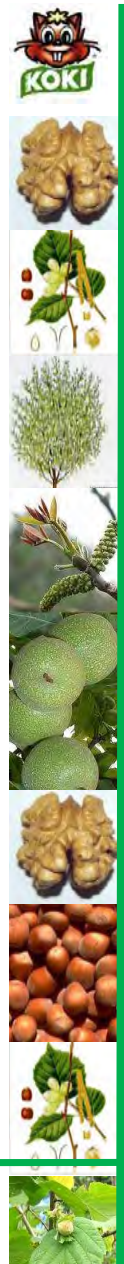
La nocciole francesa a un progetto



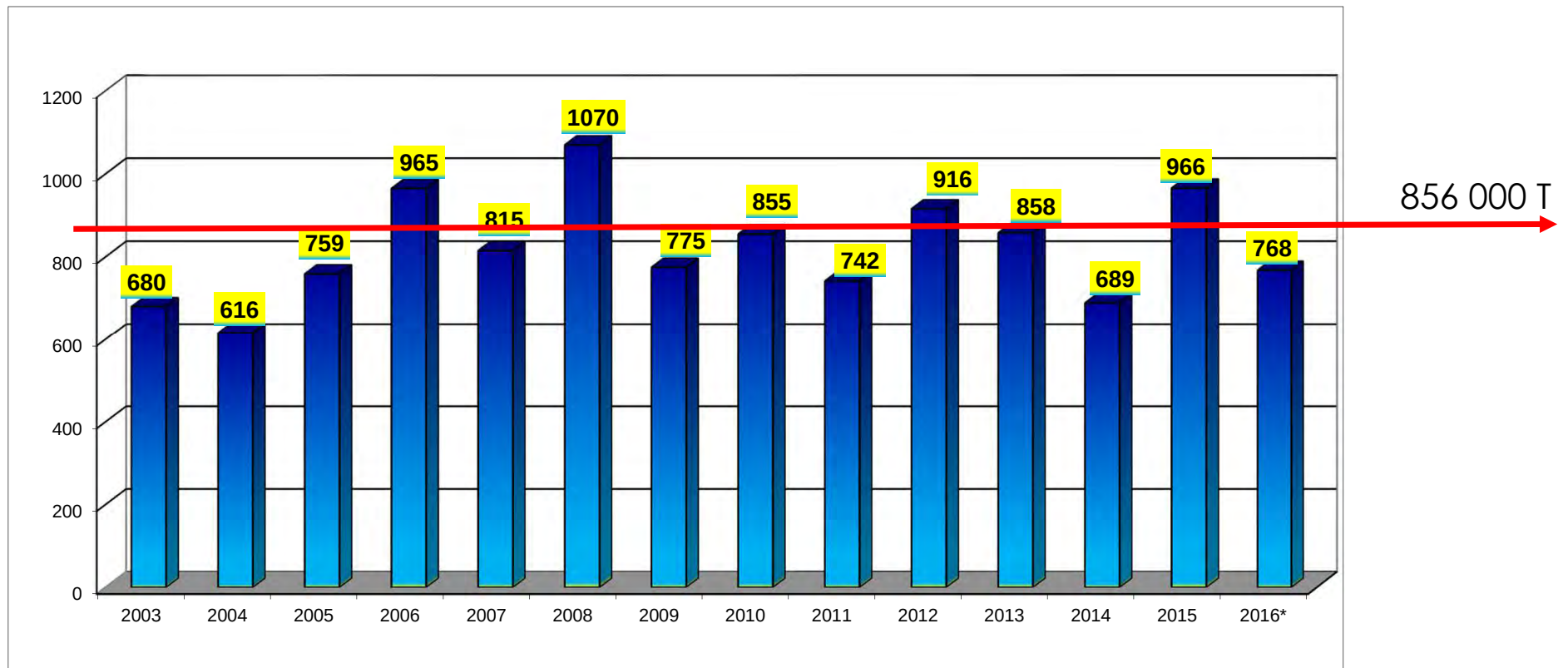


Analisi strategica





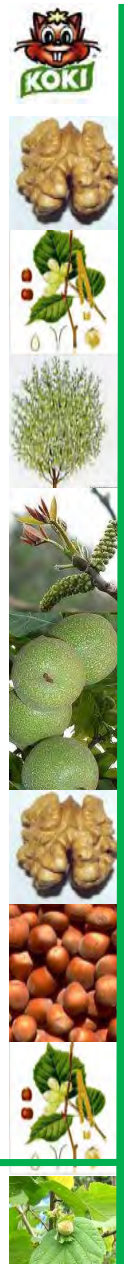
WORLD HAZELNUT PRODUCTION (in shell, 1.000 ton)



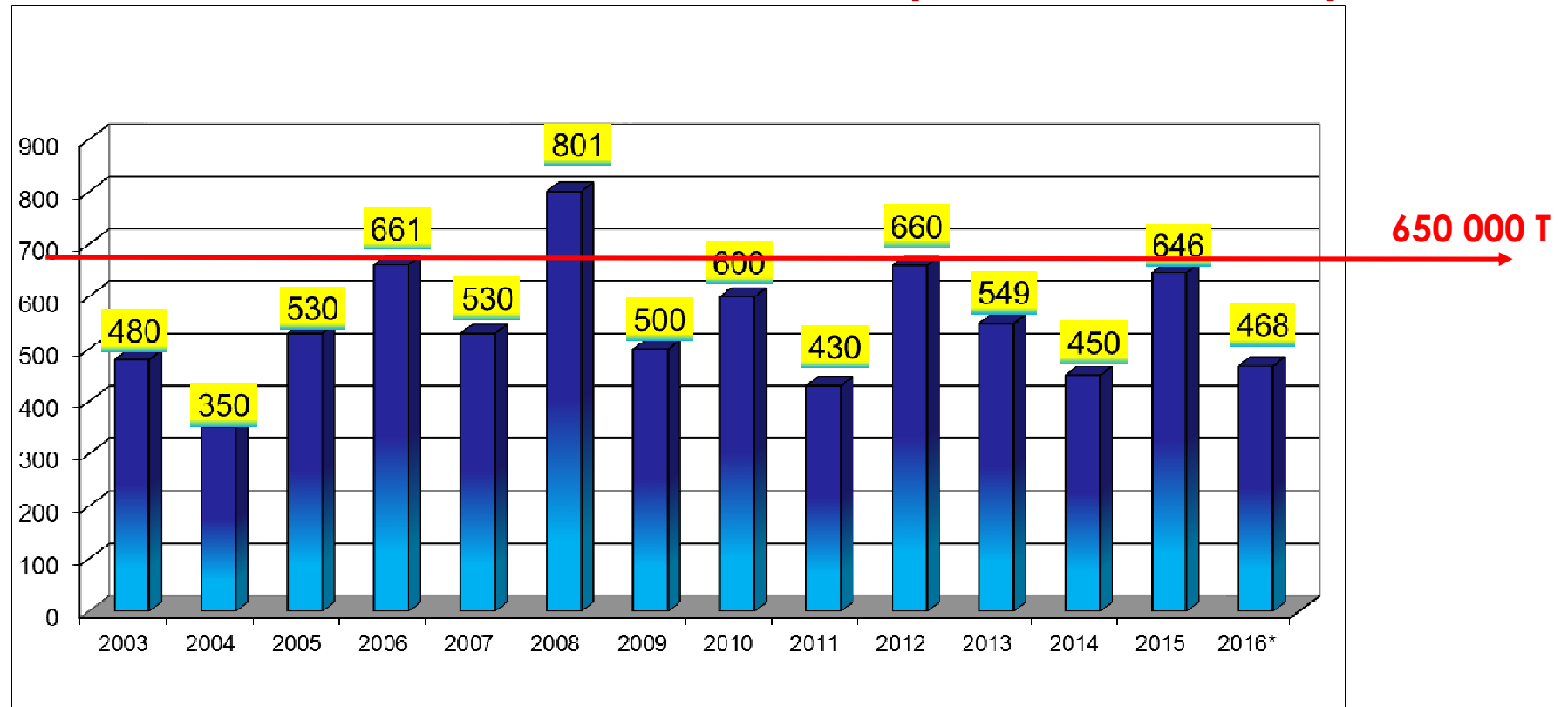
Source: FAOSTAT (Until 2013)

: Min. of Food, Agriculture and Livestock (for TR) and INC (for other countries) (2014,2015,2016)

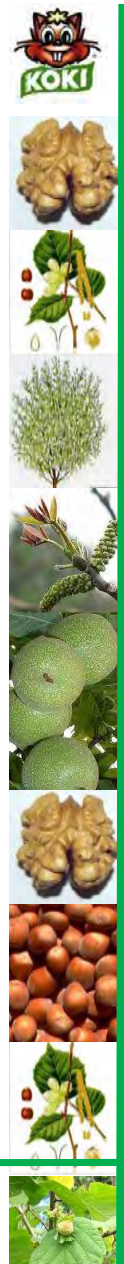
(*) 2016/2017 Estimate



HAZELNUT PRODUCTION IN TURKEY (in shell, 1.000 ton)



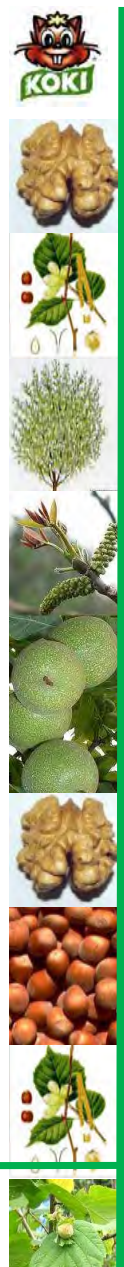
Source : Min. of Food, Agriculture and Livestock
(*) 2016/2017 Season Estimate



Mercato Mondiale

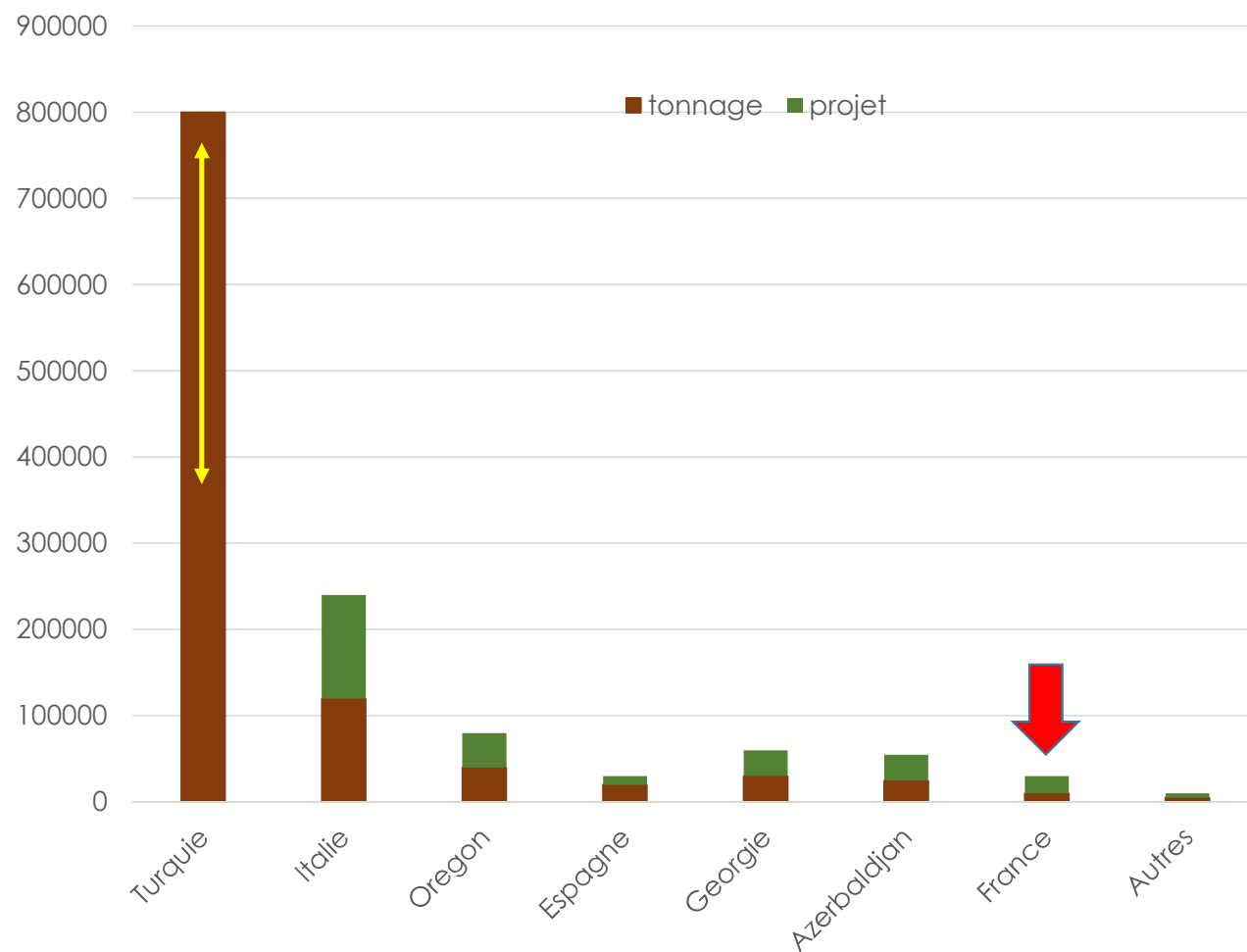
- **856 000 di Tonnellata**
- **99% per l'industria:**
- **in fase di sviluppo**
- **Dominato da industriali**
- **concorrenza mondiale**

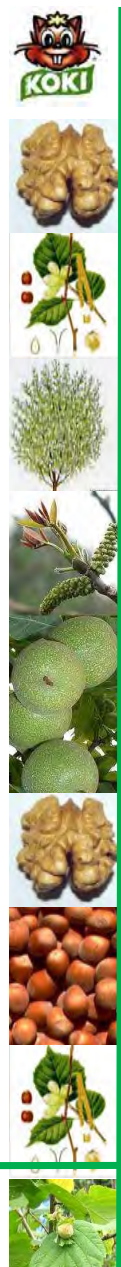




Produzione mondiale

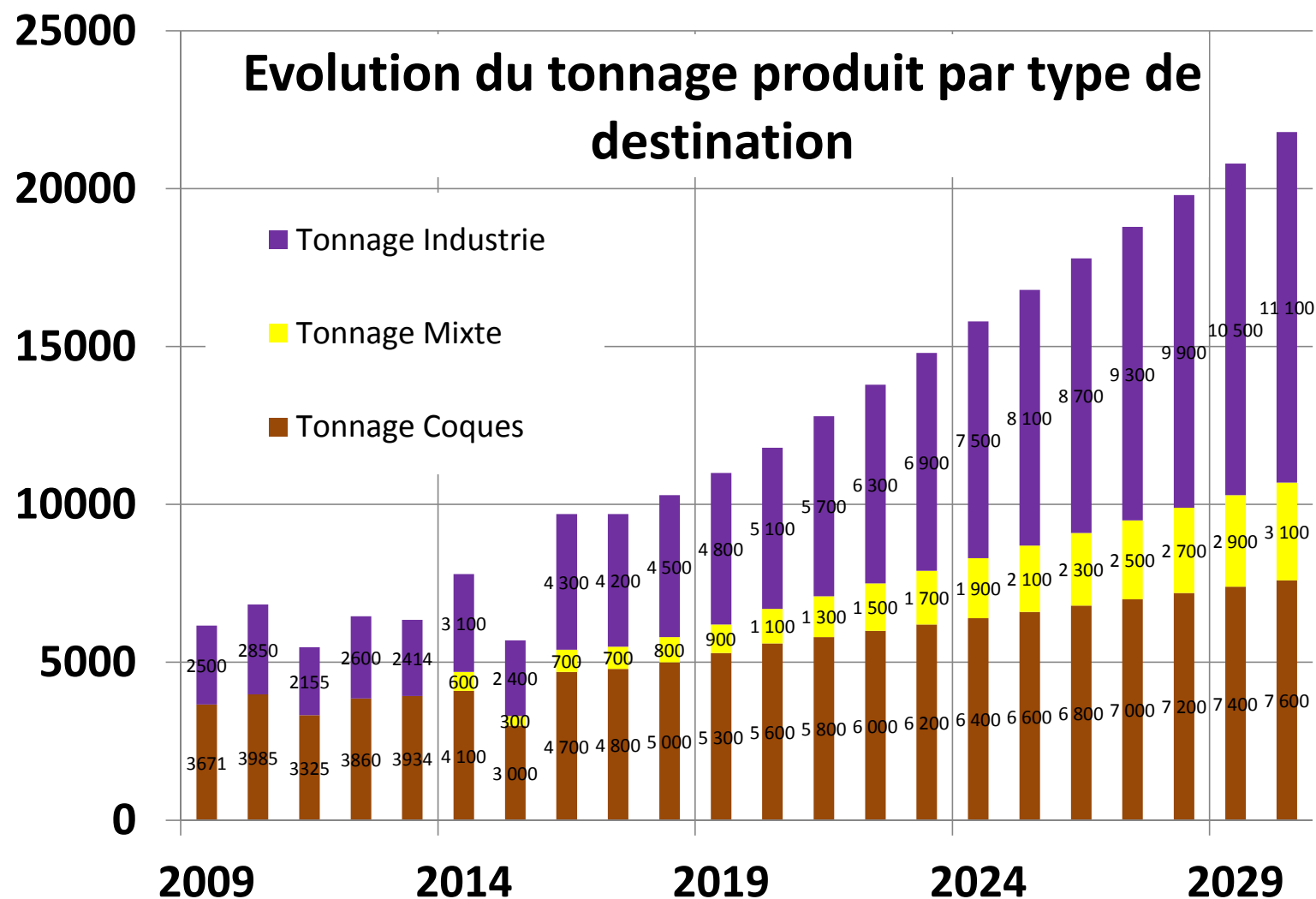
Ma un progetto modesto

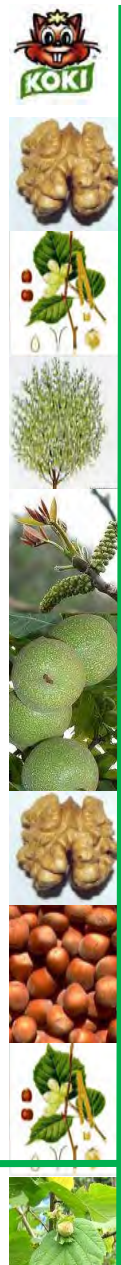




il progetto in
prospettiva

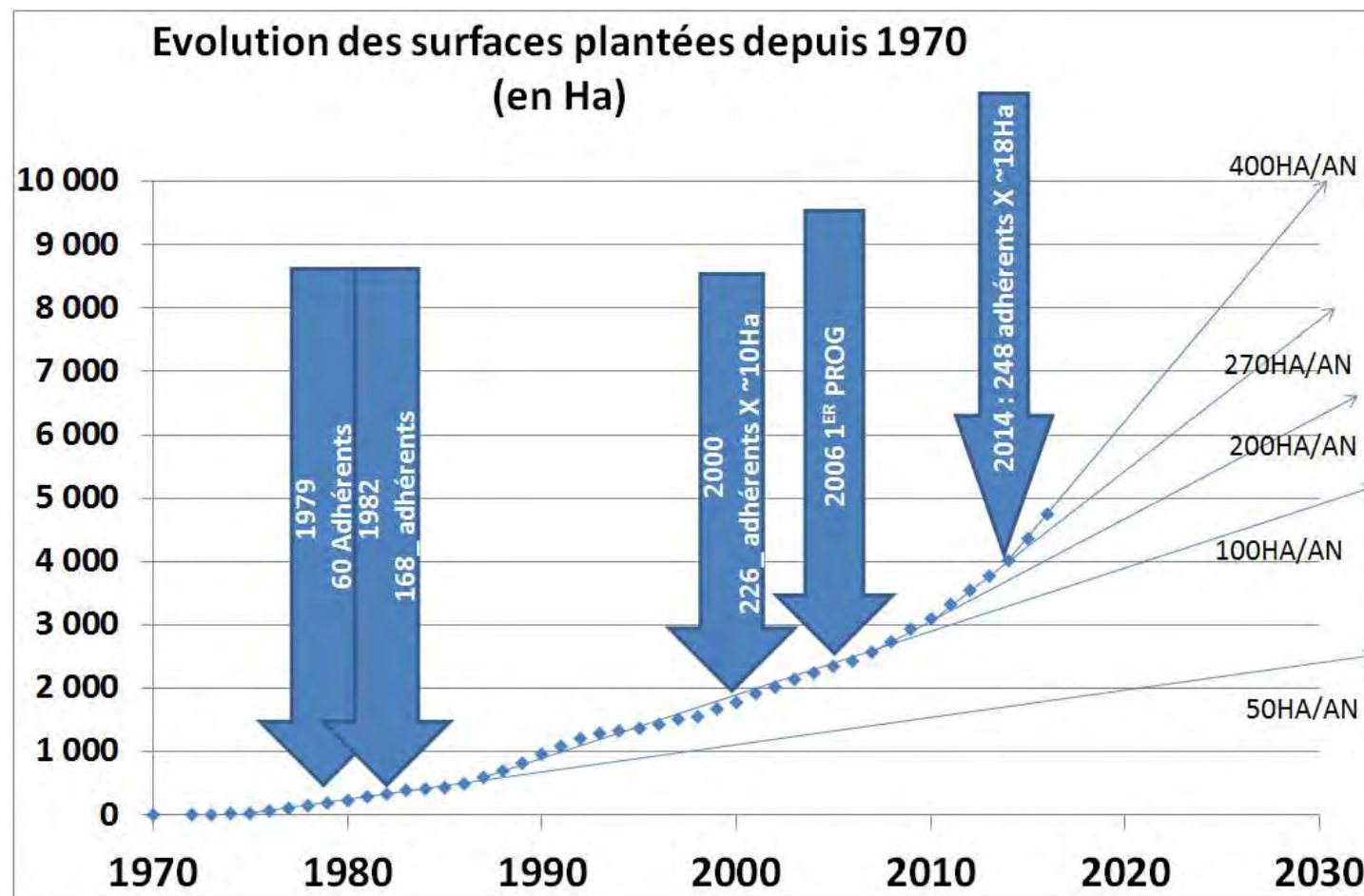
3 tipi di
varietà per
due mercati

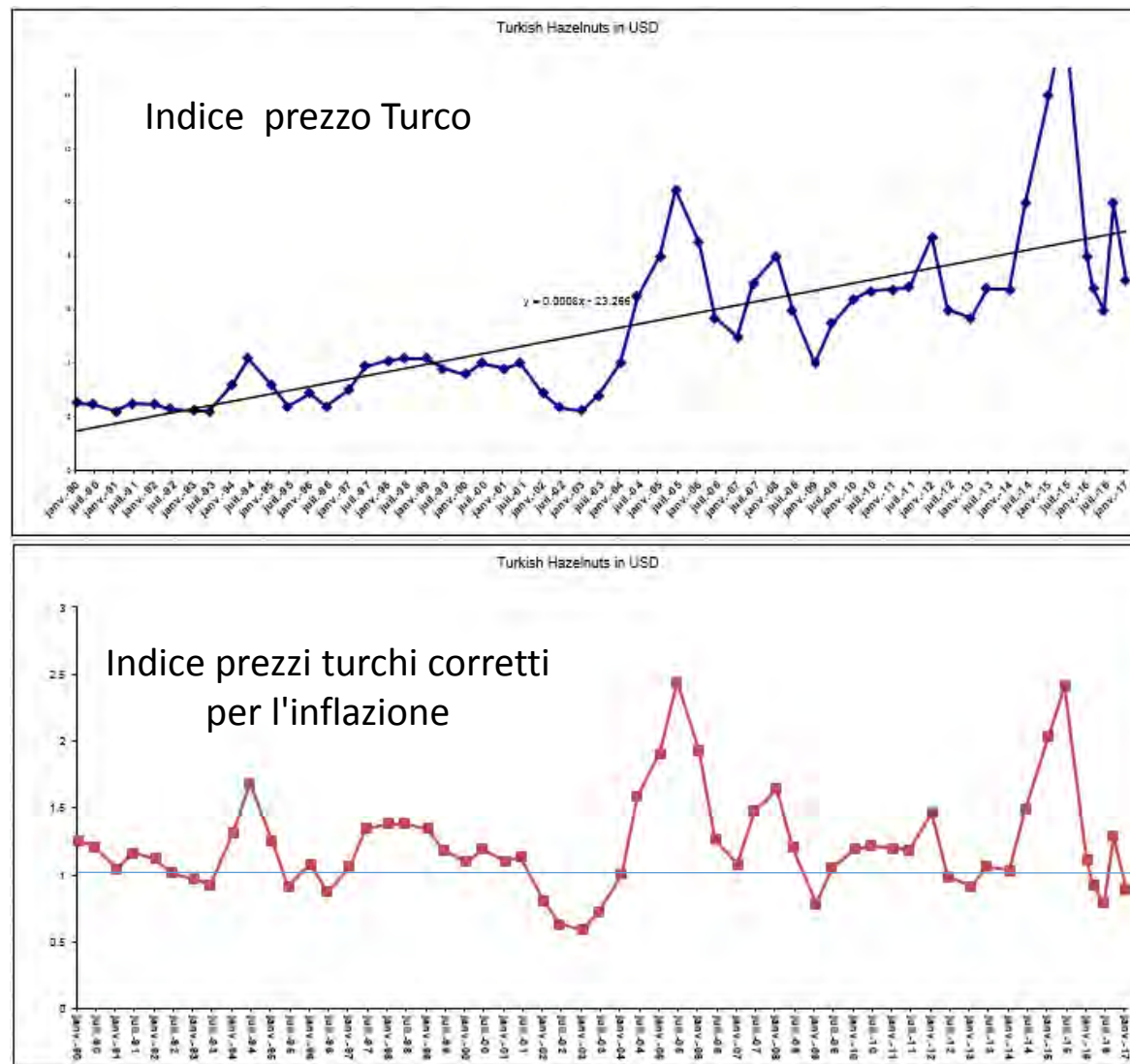
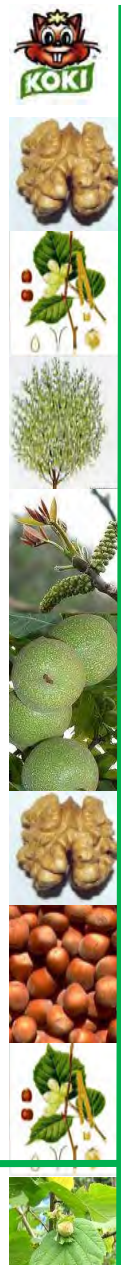


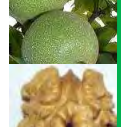
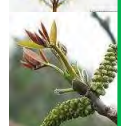


un ritmo
accelerato di
impianto

Objectivo :
400 ha /an







un'agricoltura industriale, rispettoso
del ambiente, e competitiva



Qualità segno UNICOQUE con il marchio KOKI





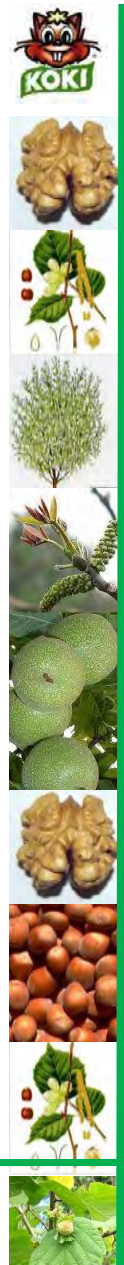
un progetto industriale



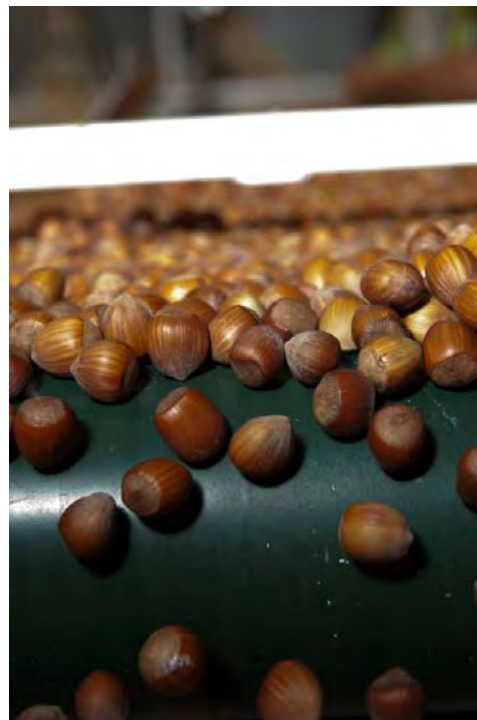


immagazzinamento





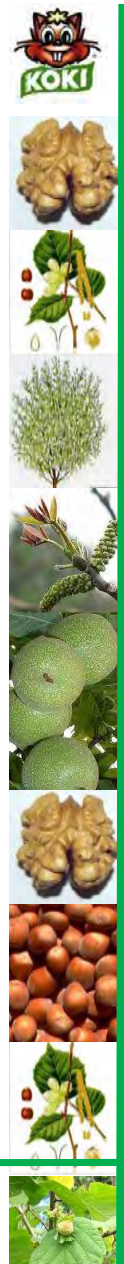
smistamento e taratura





condizionata





Pulitura e essiccazione

COFRUSEC à Labretonie
1200 T



PORTES DE TOULOUSE Mas Grenier



VDL Granges sur lot
500 T

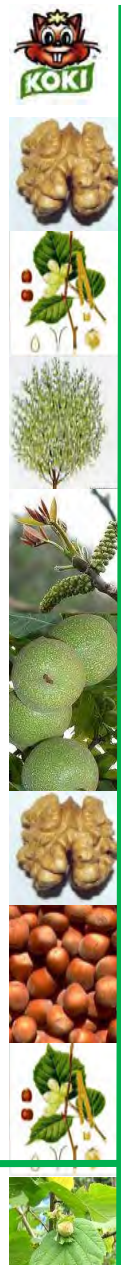




STANOI CANCON

Nettoyage lavage séparateur



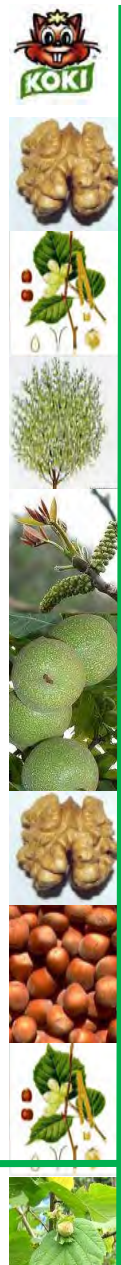


STANOI CANCON

Séchage des noisettes

Générateurs et groupe frigo





Il modelo di produzione

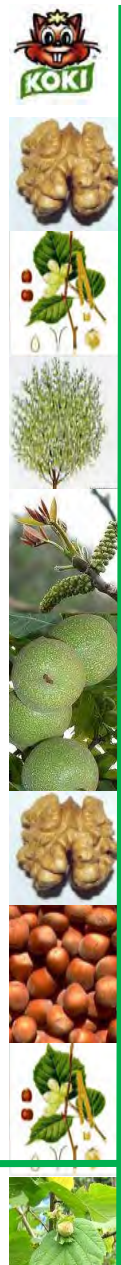
1 uome

40 ha

**1600 ore de lavoro al
anno**

1 macchina di raccolto



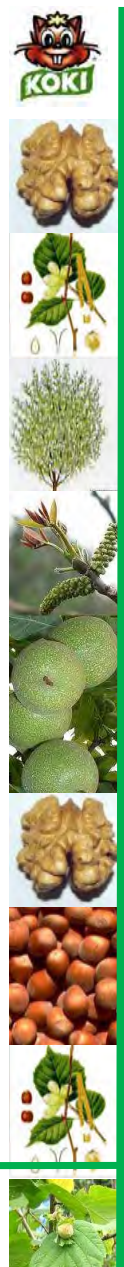


Spazio di impianto e disegno

Plan de plantation

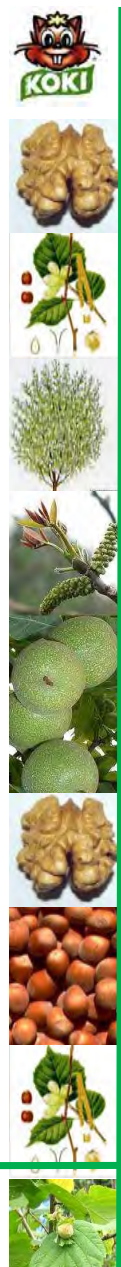
densité en NB d'arbre ha					
Entre rang	5	5,3	5,5	5,75	6
sur rang					
2,5	800	762	727	696	667
2,6	769	733	699	669	641
2,7	741	705	673	644	617
2,8	714	680	649	621	595
2,9	690	657	627	600	575
3	667	635	606	580	556





Impianto meccanico





Costo impianto

Spacio :

Entra fila : 5 à 6 m

Sulla filla : 2,5 à 3 m

Densita media :

666 arbri / ha

Critères	mini €/ha	maxi €/ha
drenaggio		1900
Préparzione del terreno	331	331
amendamento		500
piante	3730	3730
protezione delle piante	233	233
impianto macchina	400	400
irrigazione GGE	2800	2800
S/T impianto	7494	9894
ingressi al initio (3 anni)	532	532
meccanizzazione (3 anni)	422	422
Lavoro operativo (96 h/ha)	1216	1216
sottoscrizione di capitale	480	480
TOTALE COSTE	10144	12544

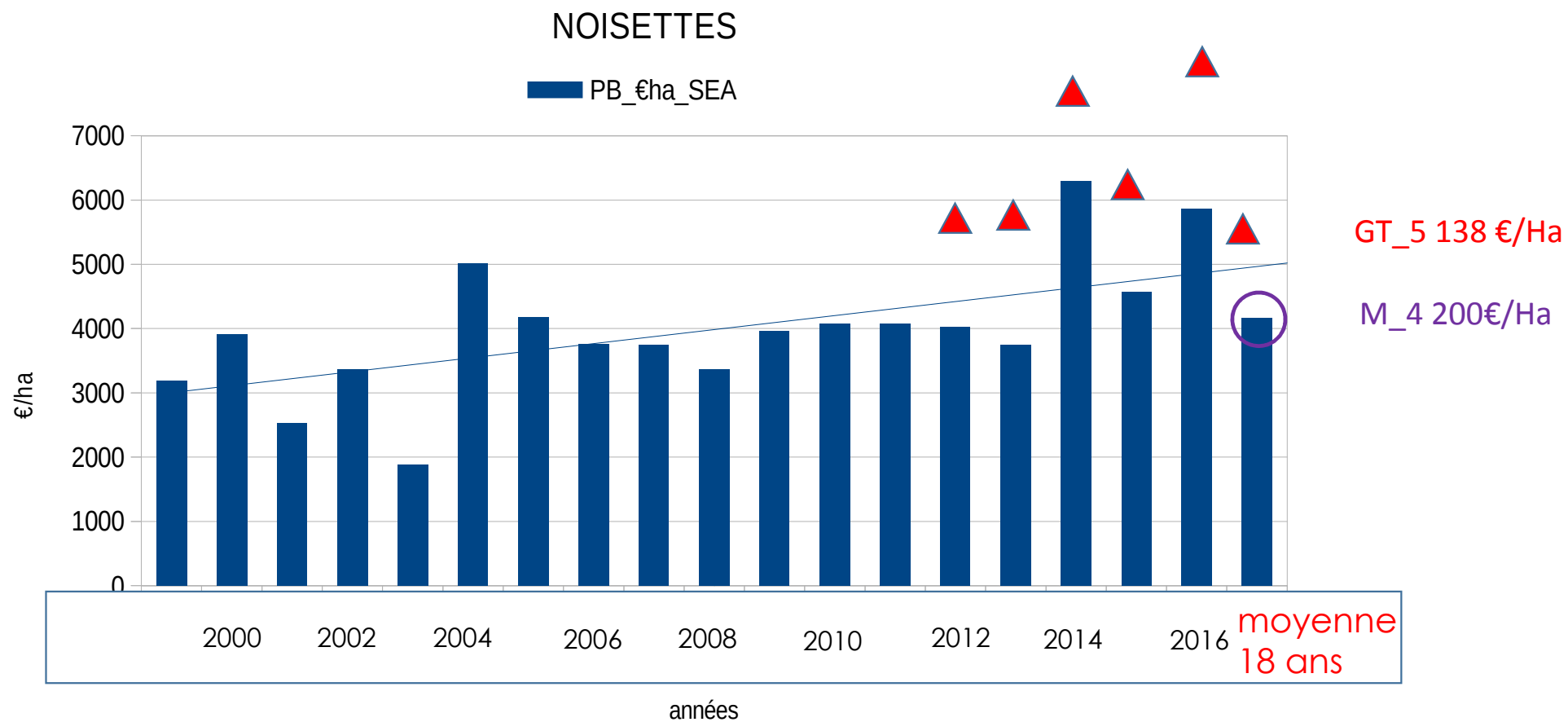


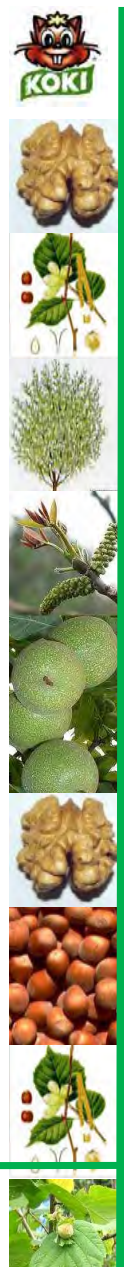
Bar chart illustrating the evolution of working hours (H/an) from 2017 to 2043. The chart is divided into three phases: 'plantation & mise en production' (2017-2020), 'entrée en production' (2021-2026), and 'Pleine production' (2027-2043). The Y-axis represents 'Titre de l'axe' (0-60) and the X-axis represents 'années' (2017-2043). The legend indicates 'temps de travaux en H/an'.

Année	Temps de travaux en H/an
2017	16
2018	43
2019	13
2020	11
2021	17
2022	27
2023	35
2024	38
2025	39
2026	39
2027	40
2028	40
2029	40
2030	40
2031	40
2032	49
2033	49
2034	49
2035	49
2036	42
2037	42
2038	42
2039	46
2040	46
2041	46
2042	46
2043	46

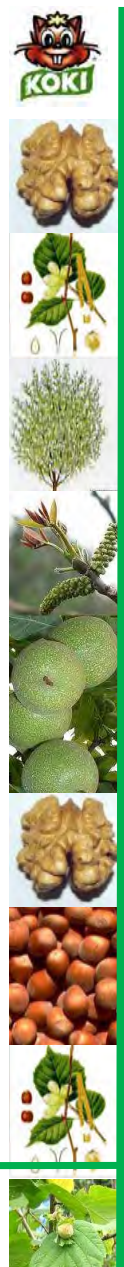


Economia : Prodotto Grezzo €/ha





Resa KG /ha		1,00 €/kg	1,20 €/kg	1,30 €/kg	1,40 €/kg	1,50 €/kg	1,60 €/kg	1,70 €/kg	2,30 €/kg
1600		1600 €/ha	1920 €/ha	2080 €/ha	2240 €/ha	2400 €/ha	2560 €/ha	2720 €/ha	3680 €/ha
2300		2300 €/ha	2760 €/ha	2990 €/ha	3220 €/ha	3450 €/ha	3680 €/ha	3910 €/ha	5290 €/ha
2500		2500 €/ha	3000 €/ha	3250 €/ha	3500 €/ha	3750 €/ha	4000 €/ha	4250 €/ha	5750 €/ha
2800		2800 €/ha	3360 €/ha	3640 €/ha	3920 €/ha	4200 €/ha	4480 €/ha	4760 €/ha	6440 €/ha
3000		3000 €/ha	3600 €/ha	3900 €/ha	4200 €/ha	4500 €/ha	4800 €/ha	5100 €/ha	6900 €/ha
3300		3300 €/ha	3960 €/ha	4290 €/ha	4620 €/ha	4950 €/ha	5280 €/ha	5610 €/ha	7590 €/ha
3500		3500 €/ha	4200 €/ha	4550 €/ha	4900 €/ha	5250 €/ha	5600 €/ha	5950 €/ha	8050 €/ha
4000		4000 €/ha	4800 €/ha	5200 €/ha	5600 €/ha	6000 €/ha	6400 €/ha	6800 €/ha	9200 €/ha
4500		4500 €/ha	5400 €/ha	5850 €/ha	6300 €/ha	6750 €/ha	7200 €/ha	7650 €/ha	10350 €/ha

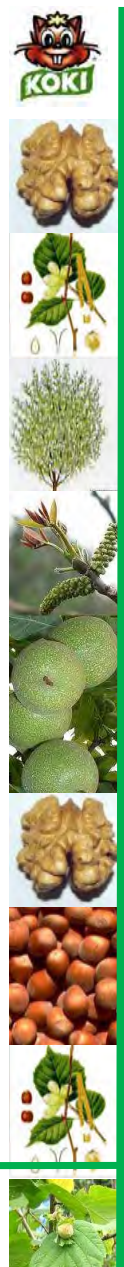


Spese di produzione nocciolo

Frutteto produttivo 10 anni

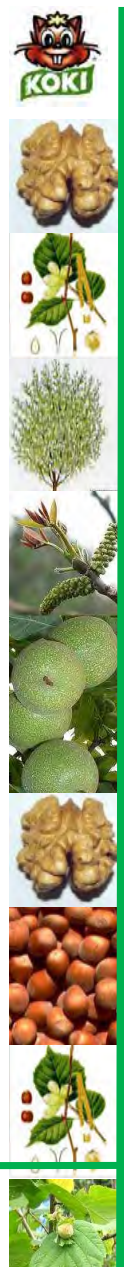
Ref : servizio sviluppo UNICOQUE

criteri	HT/ha	%
aqua irrigazione	180	5,53%
fertilizzante	222	6,82%
Diserbo e Poloni	120	3,68%
fitosanitari	182	5,60%
S/Totale "INGRESSO"	704	21,64%
spese di raccolta	350	10,76%
spese de pulitura e essiccazione	600	18,45%
assicuranze grandine	120	3,69%
quota Asso Nat Prod N	35	1,08%
Lavoro operativo de cultura	810	24,90%
S/Totale ALTRI COSTI	1105	33,97%
l'ammortamento di impianto	860	26,44%
interessi sui prestiti	103	3,17%
altre attrezzature	481	14,79%
S/TOTALE COSTI DELLE STRUTTURE	1444	44,39%
TOTALE COSTI DIRETTI	3253	100,00%



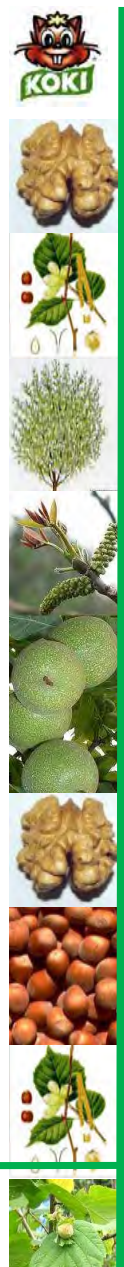
Margina diretta €/ha

Rendement en KG /ha	1,00 €/kg	1,20 €/kg	1,30 €/kg	1,40 €/kg	1,50 €/kg	1,60 €/kg	1,70 €/kg	2,30 €/kg
1600	-743 €/ha	-423 €/ha	-263 €/ha	-103 €/ha	57 €/ha	217 €/ha	377 €/ha	1337 €/ha
2300	-183 €/ha	277 €/ha	507 €/ha	737 €/ha	967 €/ha	1197 €/ha	1427 €/ha	2807 €/ha
2500	-23 €/ha	477 €/ha	727 €/ha	977 €/ha	1227 €/ha	1477 €/ha	1727 €/ha	3227 €/ha
2800	217 €/ha	777 €/ha	1057 €/ha	1337 €/ha	1617 €/ha	1897 €/ha	2177 €/ha	3857 €/ha
3000	377 €/ha	977 €/ha	1277 €/ha	1577 €/ha	1877 €/ha	2177 €/ha	2477 €/ha	4277 €/ha
3300	617 €/ha	1277 €/ha	1607 €/ha	1937 €/ha	2267 €/ha	2597 €/ha	2927 €/ha	4907 €/ha
3500	777 €/ha	1477 €/ha	1827 €/ha	2177 €/ha	2527 €/ha	2877 €/ha	3227 €/ha	5327 €/ha
4000	1177 €/ha	1977 €/ha	2377 €/ha	2777 €/ha	3177 €/ha	3577 €/ha	3977 €/ha	6377 €/ha
4500	1577 €/ha	2477 €/ha	2927 €/ha	3377 €/ha	3827 €/ha	4277 €/ha	4727 €/ha	7427 €/ha



giovane frutteto e il lago





la crescita della pianta giovane



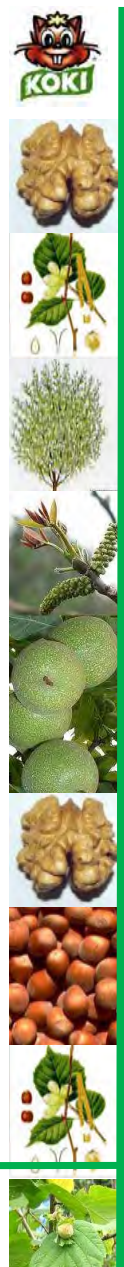
Anno 1



Anno 2



Anno 3



Frutteto 4 anni

tronco d'albero

inerbimento

diserbo sulla riga

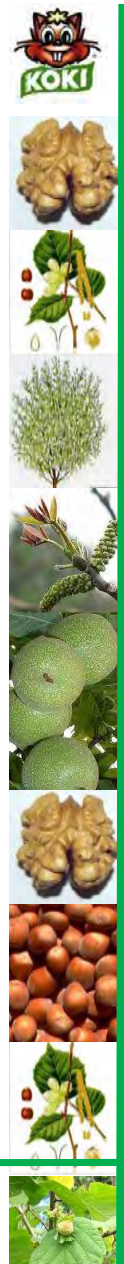
Goccia a goccia
sottosuolo





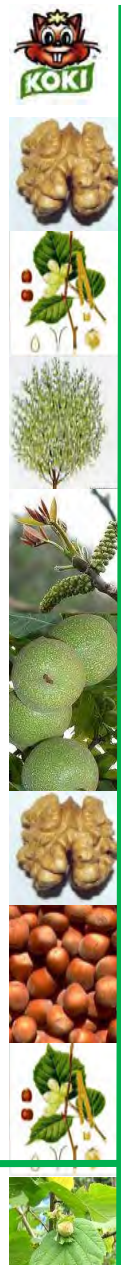
potatura





Legno di potatura





Nutrizione

Per 3000 kg/ha nocciolo guscio

- N : 100 U
- P₂O₅ : 25 U
- K₂O : 55 U
- MgO : 17 U

CONSEIL FUMURE - NOISETIERS - EARL DU BOURDIL M. ANDRIEUX

18/06/2015

Bonjour, voici une proposition de plan de fumure pour les parcelles de noisetiers. Les niveaux d'apports sont issus de analyses de sol dont une interprétation est agrafée avec l'analyse du laboratoire. N'hésitez pas à me contacter pour plus de précisions.

Cordialement,
Leyla RAMADE

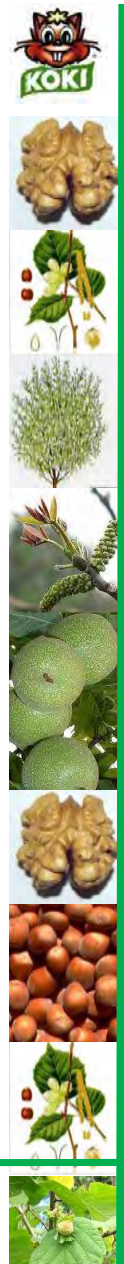
Milieu nutritif	Entretien			Redressement			Impasse		
	P ₂ O ₅			K ₂ O			MgO		
PARCELLES	2014	2015	2016	2014	2015	2016	2014	2015	2016
BOURDIL 1984	0 U ⁽¹⁾	30 U ⁽²⁾	30 U ⁽²⁾	0 U ⁽¹⁾	50 U ⁽³⁾	50 U ⁽³⁾	0 U ⁽¹⁾	0 U ⁽¹⁾	30 U ⁽⁶⁾
ENNIS 2007									
L'EGLISE 1528	0 U ⁽¹⁾	30 U ⁽²⁾	30 U ⁽²⁾	50 U ⁽³⁾	50 U ⁽³⁾	50 U ⁽³⁾	30 U ⁽⁶⁾	30 U ⁽⁶⁾	30 U ⁽⁶⁾
PAUETET 2000									

(1) : Impasse : La teneur en phosphore et/ou potasse est suffisante pour faire une impasse

(2) : Entretien : apporter 30U / Ha de P pour compenser les besoins du noisetier et stimuler le système racinaire sous forme d'un ternaire ou de 18/46.

(3) : Entretien : apporter 50U / Ha de K pour compenser les besoins du noisetier.

(6) : Entretien : apporter 30U/Ha de Mg avec la chaux magnésienne ou avec Kieserit ou Granumag.



punteruolo (Balanino).

Il rischio di Danni : 0 à 80% frutto buccati !!

Lotta :

2 interventi Chimici
Calypso (tiachlorptid) Bayer





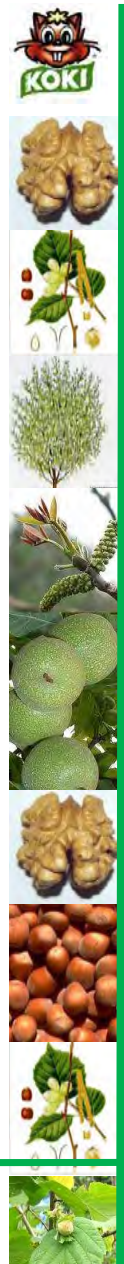
eriofide phytoptus Avellanae

Rischio di Danni : 0 à 30 % germogli di affeti !!

Lotta :

2 Interventi Chimici
zolfo





Il caso di cimice

Rischio di Danni : 2 à 6% marcio interno !!



Viggiani, 1984



Viggiani, 1984



Pentatoma rufipes



Palomena prasina



Gonocerus acuteangulatus

Difensa fitosanitaria



Calypso®

Insecticide contre : Carpocapses, tordeuses, pucerons et mouches des arbres fruitiers à pépins et à noyau, des fruits à coque et de l'olivier.
Puceron(s) du melon.

CALYPSO est un insecticide de la famille des chloronicotinyles de nouvelle génération. Il agit sur le système nerveux des insectes en perturbant la transmission de l'influx nerveux.
CALYPSO présente une bonne persistance d'action. CALYPSO est efficace sur les œufs, les larves et les adultes.
CALYPSO apporte une solution polyvalente grâce à son large spectre d'activité à l'encontre des insectes piqueurs-suceurs-broyeurs.
CALYPSO présente une systémie acropétale.

Composition

thiaclopride 480 g/l, soit 40.3% (m/m)

Autres composants dangereux

1,2-Benzisothiazole-3(2H)-one - Mélange de 5-chloro-2-méthyl-4-isothiazolin-3-one et de 2-méthyl-4-isothiazolin-3-one (3:1)

ZNT¹

Zone non traitée

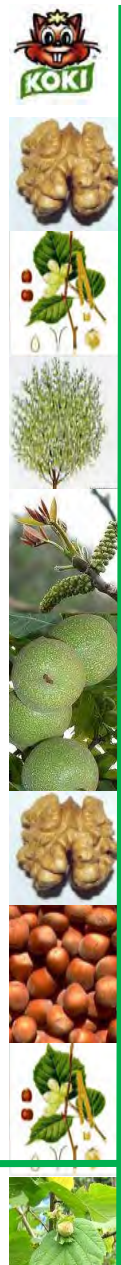
[Voir détails](#)

DRE³

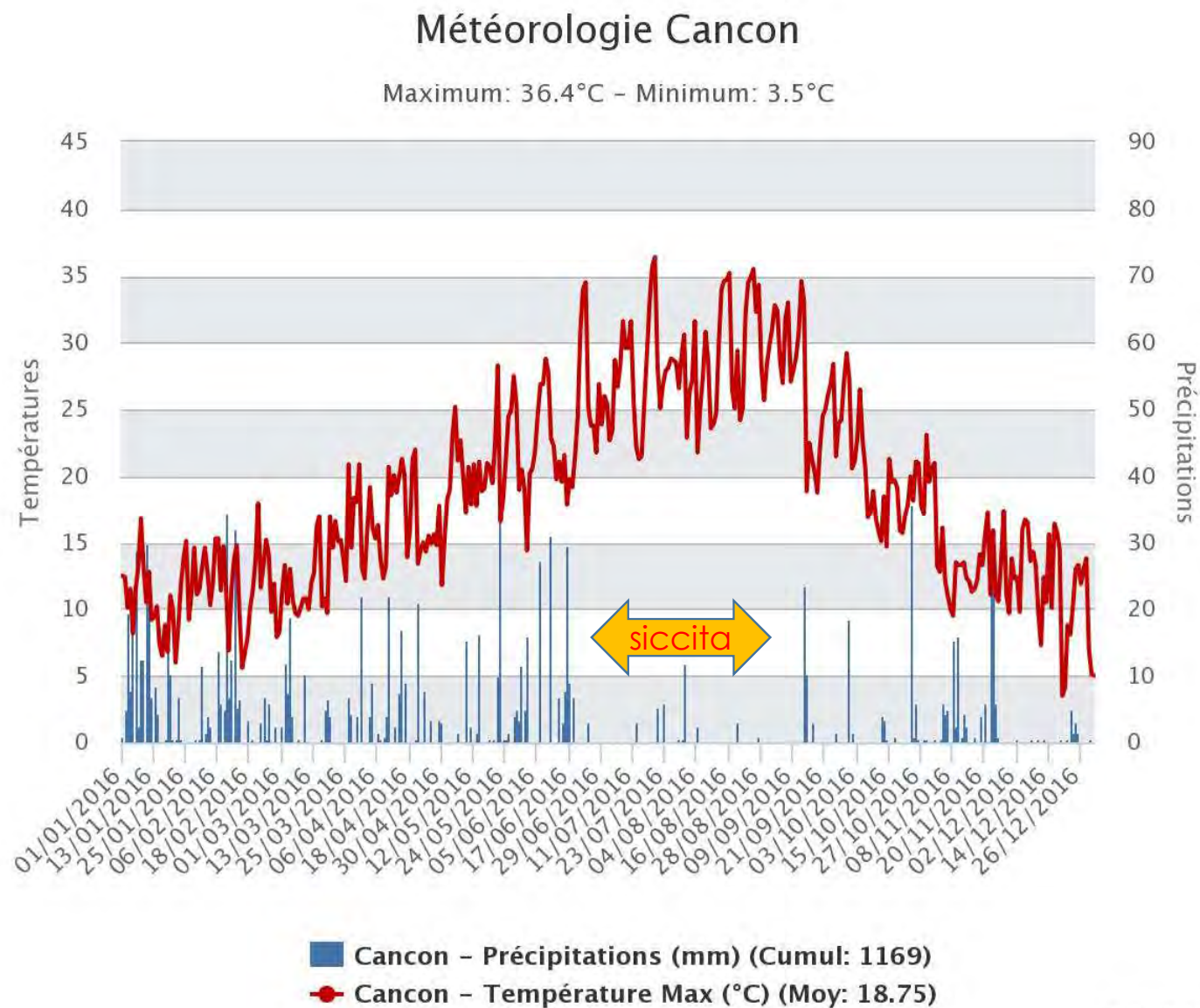
Délai de rentrée

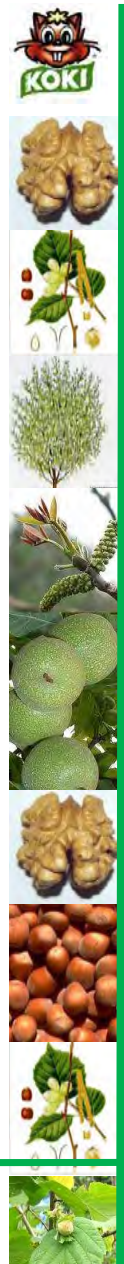
[Voir détails](#)

Ritirato settembre 2018

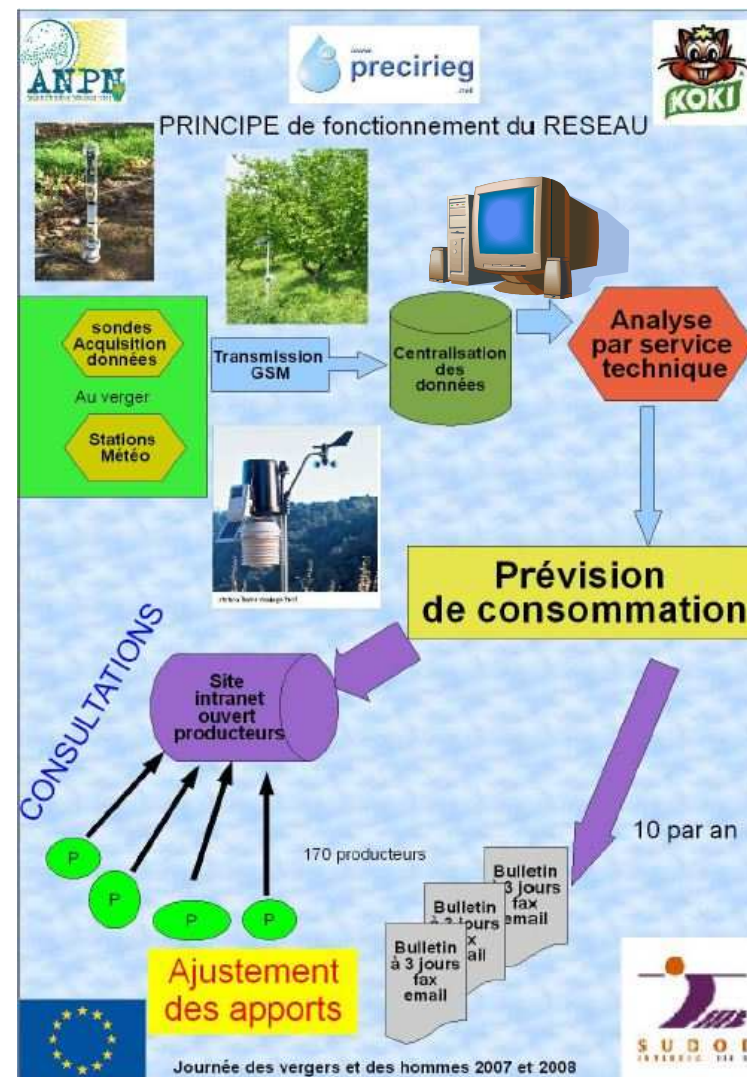


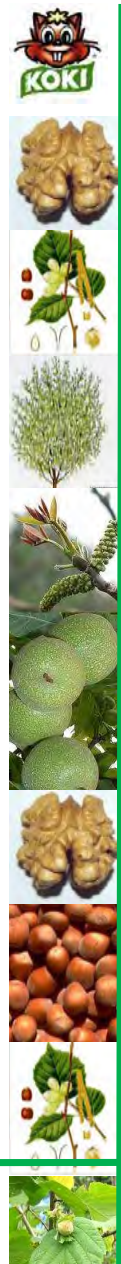
Besoin d'irriguer Diagramme pluviométrique



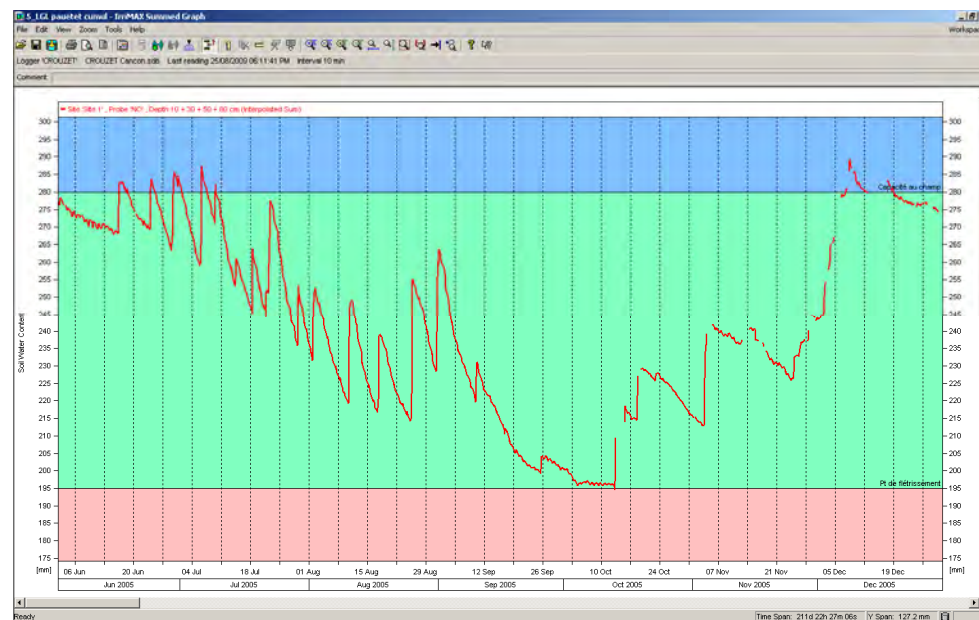
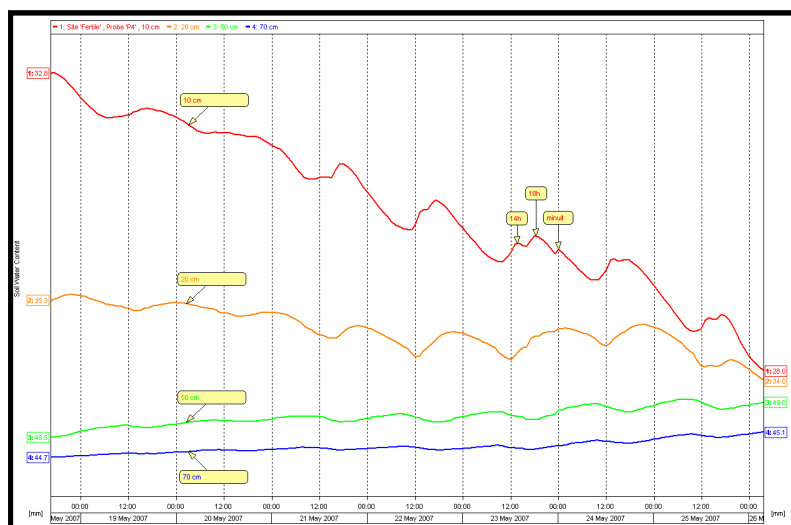


Irrigation di controllo





Evoluzione del contenuto di acqua a profondità diverse



Notiziario per tutti produttori



Tendance climatique :

Les températures maximales dépasseront les 30°C ce week-end. Un passage orageux plus ou moins efficace est possible ce soir.

Développement/Stades phénologiques :

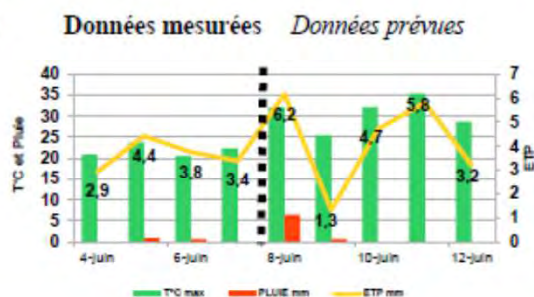
Période de différenciation.

Risque en cas de stress hydrique :

Arrêt de la croissance des pousses.

Niveau de réserve :

La réserve se situe à moitié de la RFU, en fonction des précipitations reçues.



Pour la traçabilité de vos interventions, remplissez la case jaune (ou grisée) ci-dessous correspondant à votre irrigation actuelle

g à g aérien L/arbre	vos apports	
g à g enterré L/arbre	actuels (quantité	
aspersion mm	ou durée par	
	jour)	

cumul des irrigations	101	m3/ha
jusqu'à	101	m3/ha
aujourd'hui	150	m3/ha

à prévoir en	2120	m3/ha
l'absence de pluie	2120	m3/ha
	2750	m3/ha

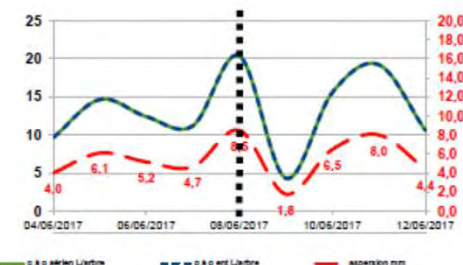
Consommations/conseils d'apport :
La consommation des arbres va repartir à la hausse. L'irrigation doit être relancée sur la totalité des parcelles.

En goutte-à-goutte aérien :
Apporter 16 L/arbre/jour.

En goutte-à-goutte enterré :
Apporter 16 L/arbre/jour.

En micro-aspersion :
Apporter 25 mm tous les 5-6 jours,
En sol filtrant apporter 20 mm tous les 4-5 jours.

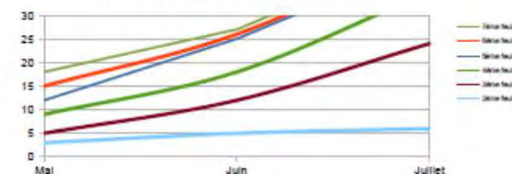
Consommations mesurées **Consommations prévues**



Point jeunes plantations :

Besoins théoriques des arbres en fonction de leur âge.

Besoins journaliers théoriques en L/arbre

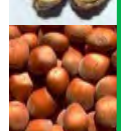




Recolta



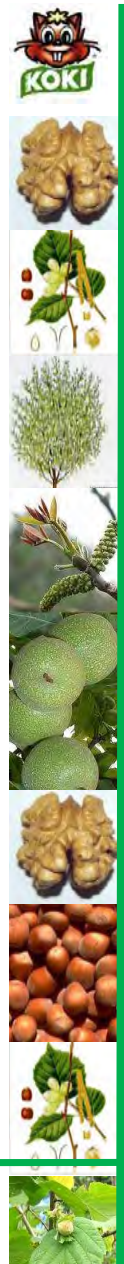




Per saperne di più

- <http://www.unicoque.com/>
- A vostra disposizione





le ringrazio molto per la vostra attenzione

