1. The Hemp Federation Ireland conference	09:18 in conjunction with the legislative
run in conjunction with the National	9:20 legalisation of cannabis in California
Organic Training Skillnet on March 12th	09:23 would be the gold standard in
	09:25 environmental policy
2020 https://www.youtube.com/	09:26 okay and it would provide encouragement
watch?v=9xUfkwTrlGg	09:29 for
1.1. Chris Allen Executive Director speaks of who	09:30 small-scale farmers practising
controls the cannabis conversation in Ireland. Can	09:32 ecologically sound and sustainable
be grown for fibre seed or oil or dual purpose crop	09:34 farming methods
Prohibition Prohibition	09:36 with funding for conservation habitat
	09:38 protection enforcement
02:36 for both industrial products and for	09:40 uh of environmental law the whole thing
02:39 horticultural purposes	09:44 you know American dream environmental
02:40 they specifically state that okay	09:47 protections
02:44 so they shouldn't be included in in the	09:48 in practice what actually happened was
02:47 misuse of drugs	09:50 that before the legislation ever went
02:55 prohibition also brought with it the	09:52 into effect
02:57 exclusion of hemp	09:53 the important environmental provisions
02:59 from human diets	09:55 were all overridden
03:54 slow uh compared to the rest of Europe	09:57 by the state okay and this effectively
03:58 okay there's been absolutely no research	0:00 disabled the environmental safeguards
04:00 on hemp in Ireland for more than 20	10:02 and it encouraged corporate growth okay
04:02 years	0:06 is uh from Dr Tony Saval who is
04:16 upper market value of 115 billion	10:10 a a scholar in
04:19 euros by 2028 for this industry	10:13 Humboldt state university
04:53 in 1964 Israeli researcher called	10:18 cannabis lobby spent more than a million
04:57 Rafael Michelan he was studying the	10:20 dollars lobbying holiday
06:32 is that the plant-based cannabinoids	10:22 policymakers to push for legislation
06:36 can you feed and upregulate	10:25 limiting the profitability of
06:40 the endocannabinoid system inside of the	10:26 smes okay and how they they did that
06:42 human body	10:31 is that they introduced really really
06:43 okay and that's why people feel	10:34 really expensive
06:46 better when they take full spectrum CBD	10:35 and difficult to fulfill licensing
06:50 it's not that they're being cured of	10:38 procedures
06:51 anything in particular	10:46 okay in 1997 the European union
06:52 it's that the function of the	10:49 introduced what they call a novel food
06:55 phytocannabin of the endocannabinoid	10:51 catalog
06:57 system is to upregulate your homeostasis	10:52 okay and anything that wasn't a
08:32 corporate farmer food drinks tobacco etc	10:55 traditionally eaten food
08:34 and they're dictating the way in which	10:57 in the European union prior to may
08:37 the market gets constructed	11:00 of 1997 was going to be considered a
08:19 experiencing	11:03 novel food
08:20 exponential growth okay so	11:06 special regulation
08:42 okay so they're (corporations) are determining the	11:08 in order to get it okay or to be able to
way in	11:10 sell it
08:44 which this industry gets developed into	11:52 but it's novel today okay
08:46 the future	11:55 and you need special authorization to
09:07 what did they call that the proposition	11:58 get it
09:10 64.	2:29 that the FSAI recommended and
09:11 so this was to kind of get their	12:33 it's around three million
09:13 cannabis industry	12:39 means
09:15 going okay so it was introduced in 2016	12:40 is that nobody except a corporation

12:43 could possibly afford that money nobody	16:05 and our businesses were completely and
13:34 uh actually they're all too old we want	16:08 utterly devalued
13:37 you to give	16:10 um and how that happened was this the
13:38 us uh examples from during the time when	16:12 FSAI said to us
13:41 the plant was banned	16:14 here's the regulation for your industry
13:43 in the 20th century okay that's	16:17 that we want you to
13:46 basically what they say	16:18 to keep up with and we said fine
13:48 it's outrageous okay so	16:22 and you know the people in this
14:01 2016 the industry in Ireland	16:24 organisation this organisation itself
14:05 and you have to remember that we do have	16:27 have been pushing pushing pushing to try
14:07 a very old industry here	16:30 and get the state to work with us
14:08 okay but the CBD wave that kind of	16:31 to put in place you know a proper stable
14:12 you know real interest in that and it's	16:34 regulatory framework to protect
14:14 really good money and uh	16:36 our supply chains and protect our
	11 4
14:16 really good food, people getting turned	16:37 markets okay they haven't
14:19 on to hell that was really driving	16:40 so far done that but so what they did
14:20 forward the industry okay	17:14 they introduced a completely new
14:22 uh 2016 the FSAI had	17:16 reference value that is one microgram
14:26 two people asked them about CBD food	17:18 per kilogram of body weight and now Kar
14:30 supplements	17:28 uh but so the FSAI did this without
14:31 okay and I know both of them	17:32 once consulting anybody in the industry
14:36 but then it	17:42 was asking them about the methodologies
14:39 trickles along nicely until around	17:44 that we're going to be applying
14:42 2018. okay and then at that point	17:45 to the testing of our products what kind
14:47 um we start seeing shops	17:47 of equipment they would be using in
14:50 being raided by police or products being	17:49 those tests
14:53 taken off	17:50 and they wrote back to me and they gave
14:54 uh um	17:52 me all of the information i needed but
14:58 suppliers and and shops and etc etc etc	17:54 they never
15:00 so a very	17:55 ever ever mentioned anything about
15:02 a criminalisation of the industry	17:58 a new reference value that they were
15:07 then you have um	18:00 going to be applying to
15:11 following on from that you had you know	18:01 our products so what actually happened
15:13 some of the raids were like you can	18:04 was that our products are all
· · · · · · · · · · · · · · · · · · ·	18:06 compliant with the only advice that this
15:15 carry out like	1
15:16 drug raids those you know people's front	18:09 industry has ever been given by FSAI
15:18 doors being	18:12 however FSAI uh did a high-level media
15:20 battered down by guards and I don't know	18:15 campaign campaign that withdrew our
15:23 what else	18:17 products
15:24 so all this time okay	18:18 from the market really high quality
15:27 it's actually perfectly fine to grow	18:19 products did a high-level media campaign
15:30 hemp in Ireland	18:22 and never once mentioned
15:32 the FSAI say to say to us that	18:23 to people that actually our products
15:35 you can grow hemp with a 0.2	18:25 were all compliant
15:39 THC and it's perfectly fine to	18:27 they never told people that they changed
15:42 have that sold in Ireland as a product	18:30 the goal
15:45 including	18:31 inside of their report and so
15:46 for food okay that was that was the	18:34 it just had such a negative detrimental
15:48 instruction	18:38 impact
15:50 now three weeks ago	19:18 in Ireland i ask for a fully integrated
15:53 we woke up one when uh Thursday morning	19:22 development plan for this industry so
15:58 and that was all gone gone	19:24 that we can capture not just the
16:01 the information was gone from the FSAI	19:25 economic benefits and there are loads of
16:04 website	19:27 them

19:27 but that we assess how we can also get	1:50 that eating him oil clears up
19:29 the other ones	11:54 excellent in about two weeks 10 days to
19:30 the human food nutrition potentials the	11:57 14 days
19:33 environmental potentials	11:58 becomes very clear and uh
19:35 the you know agricultural system	14:19 we had
19:38 development potentials and look at	14:20 in decreased
19:42 providing a new system a new economic	14:23 reporting of skin dryness decreases
19:44 system	14:28 in the skin itchiness and decreased use
19:45 to you know account for these benefits	14:31 of medication after the hemp seed oil
19:48 not just for profits	14:40 it just changes in a very small
19:50 okay so so is to encourage you know	14:44 population
19:53 rural Ireland and farming communities	1 1
19:56 and	14:45 that's that's highly unusual
	15:34 typically the western diet is heavy and
19:56 doing it because it all has to be	15:37 omega-6
19:58 embedded at local level	15:38 losses so you see off to the left
	15:41 there's this pg-1
	15:42 pg2 these are inflammatory
1.2. Jace Callaway CEO Fionala Finland speaks at the	15:45 prostaglandins
Hemp Federation Ireland Conference https://	16:54 the nutrition of hemps first off
www.youtube.com/watch?v=HK75Ui7DKnM	16:58 that excellent source
00:38 you have to understand the french have a	17:01 vegetable nutrition there's nothing else
00:40 sewn up fibre market	17:03 like it in the vegetable world
00:42 where they make speciality paper you're	17:06 the pro both completely easily digested
00:44 not going to compete with that	17:14 and also hemp seed oil is a functional
00:50 if you had the products if you had the 00:52 market	17:18 food
00:53 the Chinese would serve it cheaper	18:08 and if you want to lower your
00:56 faster better than you people eat every	18:09 cholesterol the LDL
01:00 day	18:12 attempts
01:07 I recommend that you go into food	18:16 and then just spread it on your bread
01:53 there's over 2 800 scientific articles	18:30 especially bird seed
01:56 on cannabidiol	18:34 animal food versus cow
01:57 alone not one of them shows harm	18:37 chicken will make omega-3 eggs
02:00 the authorities are scrambling	18:41 and whole hemp seed oil sediment
02:02 desperately looking for something	18:44 or seed cake this is a very important
02:04 harmful to say about CBD and they come	18:48 market
02:06 up empty-handed	18:56 that nuts iron name metallic Allister's
06:23 there's vitamin minerals in the seed	19:00 cough
08:54 high amount of omega-6 high amount of	19:00 mixture could be really handy you look
08:57 omega-3	19:03 there the ingredients cannabis
09:22 these are the only	19:05 indica iphc i don't know what's fixing
09:23 two clinical studies on hempstead	19:09 the cough is it
-	19:10 chloroform or the alcohol
09:45 we had healthy people	19:21 but um it's important to know that this
09:49 we didn't expect them to get any	19:24 was
09:51 healthier	19:24 a medicine and the medicine worked qu
09:52 we compared him to the oil black seed	19:28 well
10:54 not only safe but really healthy we	19:57 perfectly legal for human consumption
10:57 found that the fatty	19:59 but what do the authorities say about
11:06 and we were surprised to find the HDL/LDL	20:01 feeding to animals
11:09 ratio improved	20:11 European commission 2017
11:35 but we did the second clinic with hemp	20:15 on page 77 of this commission
11:38 seed oil	20:18 regulation you'll see listings for hemp
11:39 and this was a patient	20:22 seed
11:46 this is eczema and we found out	20:27 right there with poppy seeds and poppy

165	20:29 meal of course	02:42 the last hundred years in the dairy
166	20:30 these are perfectly acceptable things	02:45 industry
167	20:32 for animal feed	02:46 did that make sense so um there is a
168	20:34 it's in the law we don't have to ask for	02:50 huge potential I
169	20:36 permission	02:52 understand sean is being a little bit
170	21:19 the extra lime oil for paints and	02:54 sort of holding back a little bit on the
171	21:22 varnishes	02:55 uh the potential
172	21:23 other speciality coatings you can make	02:57 and that's understandable um but
173	21:26 inks out of it because it's a drying oil	03:00 nonetheless there is a huge
174	21:29 and because it's a drying oil that means	03:02 worldwide potential for hemp um
175	21:31 it oxidizes rather quickly that's why	03:05 for hemp in it's all in all its shapes
176	21:34 it's not so good for soaps or cosmetics	03:08 and forms
177	21:37 because they begin to smell like paint	03:09 the hemp federation's focus though is
178	21:39 rather quickly and hemp seed oil is not	03:12 industrial hemp
179	21:42 appropriate as an iod	03:13 so there is so this confusion i suppose
180	21:44 so this is oil is too valuable to burn	03:16 um is where there's a crossover between
181	21:47 energy just don't even think about it	03:19 hemp and cannabis
182	21:50 you shouldn't be burning agricultural	03:20 okay we are very adamant in the hemp
183	21:52 products	03:23 federation and
184	21:53 especially a healthy food	03:23 the whole in the industry
185	21:57 for animals with humanity	03:26 the people we're representing the hemp
186	2110 / 101 diminus with numbers	03:28 federation are hemp growers okay it's
187		03:31 there isn't, there's a different lobby
188	1.3. Kate Mullaney speaks at the Hemp Federation	03:33 for the cannabis industry
189	Ireland Conference https://www.youtube.	03:35 and a different um emerging industry
190	com/watch?v=_Cgyxpbz-bM	03:39 and what we need to do is protect the
191	Com/ watch: vcgyxpb2-bH	03:42 hemp industry because it doesn't have
192	00:39 this man he's horase plunkett	03:44 the same voice it doesn't have the same
193	00:42 he is um the founder his	03:47 bump behind it right now it's a smaller
194	00:45 pr um his uh what he call it his um	03:50 industry whereas the cannabis industry
195	00:50 legacy to the uh to Ireland to the Irish	03:52 has massive pharmaceutical
196	00:52 farming industry is	03:54 backing behind it
197	00:54 um the cooperative movement and	03:58 so the industrial hemp um is the
198	01:22 dairy industry setting up if you know	04:01 feedstock for
199	01:24 what i mean the dairy cooperative	04:02 numerous different industrial
200	01:25 movement	04:06 processes right the food the feed
201	01:26 and the hemp industry was wiped out okay	04:09 the fibre the fuel and the pharma I
202	01:29 if you if you imagine the amount of	04:11 don't want to completely eliminate them
203	01:32 investment in that hundred plus years	04:13 from the talk
204	01:34 that has gone into the dairy industry	04:14 um but they they they're all so hemp
205	01:36 that was limited	04:17 becomes the food stock for all of those
206	01:40 by for the hemp industry by um the	04:19 industries um
207	01:43 prohibition basically of hemp	04:21 you know which give the opportunity for
208	01:52 actors that didn't want to see hemp	04:23 multiple possibilities right
209	01:55 progress um so	04:39 food feed fibre fuel and pharma has
210	02:23 from the last okay maybe	04:42 multiple industries
211	02:27 10 or 10 15 20 years here's been very	04:50 um biological equivalent of crude oil
212	02:30 little	<u> </u>
213	02:30 investment even in that time so it'	04:54 so anywhere when you are where you 04:56 imagine um 04:58 crude oil has been used or oil has
213	02:32 been the prohibition has been lifted	_
214	02:34 to some degree um the amount of	been 05:00 used you know the petrochemical industry
	02:37 investment into the industry is	05:00 used you know the petrochemical industry
<ul><li>216</li><li>217</li></ul>	02:39 is relatively small compared to let's	05:19 um the problems for farmers are also the 05:23 solutions
217	02:42 say	
218	·	05:42 of farming the cost to a small and
417		

220	05:45 medium	08:13 certification system where people can
221	05:49 than the industrial farming the you know	08:15 earn points
222	05:52 the corporate farm	08:17 um relating to how economically
223	05:53 corporate farm model um so	08:20 or how environmentally friendly their
224	05:58 um what am i trying to say um so while	08:22 product has been
225	06:01 there's a shrinking market	08:23 produced so it kind of stacks it up a
226	06:03 and there's growing costs okay	08:26 little bit against
227	06:06 for the smaller farmers and what's	08:27 the mass of big corporations and gives
228	06:08 happening is the industrial	08:29 brownie points let's say
229	06:09 corporate farms are actually really	08:36 growing cost becomes
230	06:12 taking over and taking control of the	08:38 a good thing for the smaller producers
231	06:13 food production	08:41 food has become food production has
232	06:16 because the smaller farms can no longer	08:43 become incredibly scientific so we're
233	06:18 compete it's getting harder and harder	08:45 again drilling into the food value
234	06:19 to compete	08:48 right um the poly so it's no longer a
235	06:20 so we're having to be faced with um	08:52 cup of coffee it's the polyphenols we're
236	06:23 food that's coming from you know very	08:54 looking for
237	06:25 far away	08:54 are no longer a glass of wine again the
238	06:26 and the idea we all have to be	08:56 polyphenols or the mushrooms
239	06:29 traceable	08:58 are now valued for their um tri terpenes
240	06:30 so every product that's on the	09:01 i think they're called
241	06:33 supermarket shelves	09:02 um so but that that also again
242	06:34 is every food product is traceable	09:06 with certainly with hemp you've got the
243	06:38 okay and that trace ability creates a	09:08 the cannabinoids it's a very valuable
244	06:40 huge amount of paperwork for every	09:10 commodity
245	06:42 single farmer	09:11 um so i so hemp can come in here
246	6:43 but that cost is spread out over a	09:14 on the scientific level um the
247	06:45 massive quantity of products	09:16 scientific food production level
248	06:47 when you're a massive industrial	09:19 um the younger demographic okay are
249	06:49 corporate	09:22 choosing
250	06:51 food production but if you're a small	09:23 making different food choices so hemp
251	06:52 medium farmer that cost is much greater	09:29 actually the biggest demograph of
252	06:54 to you	09:33 people buying um non-animal protein for
253	06:55 um so what we need to do is balance that	09:37 instance
254	06:58 level that that playing field so that um	09:38 is actually meat eaters themselves
255	07:02 right the problem is this shrinking	09:41 they're choosing to
256	07:05 market and rising cost so we need to	09:42 you know maybe two one or two days a
257	07:07 change that around so those problems	09:44 week to choose something different
258	07:09 become our solution so that okay we've	09:48 so the protein within the hemp or in the
259	07:12 got trace ability right	09:50 hemp
260	07:14 we all agree we need the trace ability so	09:51 products is a tremendous source of
261	07:40 for there may be more people per product	09:54 protein
262	07:43 let's say	10:07 and it's time to take advantage of the
263	07:44 employed in a smaller industry than	10:09 global hemp trend
264	07:45 there would be in a larger industry so	10:23 important to separate um
265	07:48 that becomes a benefit to the person in	10:27 sorry the hemp industry from the
266	07:51 the shop making a decision on what to	10:28 cannabis industry
267	07:53 buy they can see clearly	10:30 because it is a different completely
268	07:55 on a certification or some kind of a	10:32 completely and utterly different
269	07:58 traceability so the traceability goes	10:32 completely and ulterly different 10:34 industry
270	08:00 further than just where	10:34 industry 10:35 um but the hemp industry again is a
270	08:02 this product came from it becomes	10:38 massively
271	08:06 as	10:38 massivery 10:39 growing internationally traded commodity
273	08:10 a traffic light system or a	11:00 two weeks ago hemp is practically
274	oo. 10 a traine light system of a	11.00 two weeks ago nemp is practically
414		

275	11:05 prohibited in this country you can you	14:27 that prohibition claims to represent
276	11:06 can grow it all right and you can grow	14:30 we can see that in our prisons
277	11:08 it	14:33 it has put previously unknown
278	11:08 for fibre but for food it's pretty much	14:38 harmful contaminated drugs on the
279	11:11 prohibited	14:42 streets
280	11:12 and because the amount of	
		14:45 it has escalated thefts muggings and
281	11:16 THC that's allowed in food is so	14:49 burglaries it has diverted scarce
282	11:19 tiny now um it's	14:53 law enforcement resources where are our
283	11:23 you can always say almost say it's	14:57 guardi
284	11:24 prohibitive so so for any farmer who's	14:58 and what are they doing it has
285	11:26 looking to come into this industry	15:01 overcrowded and
286	11:28 right now with a CBD product or a food	15:02 obstructed the courts and prisons just
287	11:30 product they have to be	15:05 spend a half an hour in the courts and
288	11:32 incredibly careful they have to know	15:07 you'll see that very clearly
289	11:33 what they're doing and it's and actually	15:10it has evolved and this is important
290	11:35 it's very very limiting	15:12 actually evolved
291	12:01 the fact that this is the first	15:13 local gangs into international
292	12:02 industry-led uh conference actually	15:16 enterprises
293	12:05 because there is no	15:17 with intricate power structures
294	12:06 government agenda here today there's no	15:21 that reach into every corner of society
295	12:08 pharmaceutical agenda here today	15:24 controlling vast swathes of territory
296	12:21 so again so the damage caused	15:28 with significant social and military 15:31 resources
297	12:24 by prohibition right in one sense i am	15:32 at their disposal these
298	12:27 talking about	15:35 are the impacts of prohibition okay
299	12:28 the broader you know available drugs	15:41 if prohibition of hemp continues
300	12:32 but unfortunately currently	15:47 it will limit the growth of the Irish
301	12:35 hemp is, it isn't on one hand falling	15:50 hemp
302	12:39 into it, but it is in terms of	15:51 industry by restricting access to state
303	12:41 the food safety authority and the	15:54 supports banking insurance and
304	12:44 guardi	15:57 investment
305	12:44 and many of the actors that are in well	15:58 i mean we're actually already there
306	12:47 they're not actually in the industry	16:00 that's where we are
307	12:49 they're outside the industry	16:02 we have been stymied
308	12:50 um so so the reality is the damage	16:06 we've had road blocks for the past 20
309	13:26 won't say single-handedly	16:09 years it's been
310	13:28 but darn i just said it uh triggered the	16:09 a constant battle to um
311	13:31 worst	16:13 get past all the sanctions that have
312	13:31 crime crime wave crime wave	16:15 been uh against the industry
313	13:35 in history without question of doubt	16:16 the licensing system alone is um
314	13:38 it has created a black market with	16:20 a pro a prohibition actually for farmer
315	13:41 massive incentives to hook both adults	16:24 a prohibitive
316	13:44 and	16:25 um barrier yeah to
317	13:44 children alike	16:28 farmers to come into the industry okay
318	13:56 dangerous substance substances available	16:31 so if if prohibition of hemp continues
319	13:59 in schools	16:35 it will exclude Irish farmers from a
320	14:00 and communities and prisons this is	16:38 rapidly growing global
321	14:03 prohibition now remember	16:39 hemp food sector
322	14:06 it has raised gang warfare to a level	16:39 hemp food sector okay so the whole world
323	14:09 never seen before and we're all familiar	16:43 is going to take
324	14:13 with what's going on in the drug	16:44 advantage of what's going on if we
325		
326	14:17 world it has an impact	16:48 if the food safety authority and the
327	14:20 it has removed many important human	16:50 guard the
328	14:23 rights and civil liberties of the	16:51 insist on prohibiting
328 329	14:26 individuals	16:55 the micro amounts of THC

17:00 that are in hemp foods	20:35 the the FSAI has given us permission
17:03 in this country and this is an i	20:38 put
17:06 just so up till two weeks ago we were	20:38 a hundred micrograms okay
17:10 in a kind of gray area now we're even in	20:42 100 of those little specks of dust
17:13 a more	20:45 are now um available for us
17:14 gray area actually to be honest with you	20:49 in our hemp foods right traces it's ting
17:16 this is a cup of coffee	20:52 it is it's insignificant
17:18 this is a regular cup of coffee you know	20:55 i'm sorry where am i um
17:19 what you'd just make for yourself at	21:01 so oh that's going along by toughness
17:21 home	21:08 of a milligram hundred micrograms p
17:22 i don't know if you can see the	21:10 watt
17:23 difference this is what this is what	21:11 per day per body per day per individu
17:26 this is what the government is now	21:14 per day yeah per person per day
17:27 telling us is a cup of coffee	21:26 continue with the prohibition
17:29 in in terms of uh what's	21:28 um
17:32 um safe for us	21:32 we're going to support and he flawed
17:35 to have so this the safe THC in food now	21:35 government policy
17:39 is as weak	21:36 which takes its lead from corporate
17:41 are insignificant actually and um	21:38 facing actors
17:45 it's not it's not that i'm looking for a	21:39 new too and i might add poorly dispo
17:48 high from my food it's that i'm looking	21:42 to the hemp industry
17:50 for the benefits	21:45 and we will be responsible for the los
17:50 for the benefits 17:51 the uh the health benefits from um	21:43 and we will be responsible for the los 21:48 of a significant
	e e e e e e e e e e e e e e e e e e e
17:54 hemp the bio availability of hemp	21:49 positive impact on the regeneration at
17:58 um is tremendous has tremendous benefits	21:52 the socioeconomic
18:00 to	21:53 integration of a collapsing of the
18:01 uh the hemp industry so this is 50 times	21:56 collapsing rural communities so hem
18:05 weaker this is what they're telling us	21:59 a huge potential here
18:07 now 50 times	22:02 um with the right um
18:10 which is quite significant um a jump	22:06 uh information the right support behi
18:14 when they didn't even ask anybody in the	22:08 it and it will also be so if we continue
18:16 industry what was their advice what was	22:10 with the prohibition we'll be
18:18 what	22:12 responsible for
18:18 what would they consider safe it was	22:13 the loss of the economic supports to
18:21 just whack	22:15 encourage small
18:22 straight into what what the food safety	22:16 high-quality producers of value-added
18:23 authority decided	22:19 finished products
18:25 and without any real um	22:20 for internal and export markets across
18:30 science and making kind of you know uh	22:24 the supply chain
18:33 questionable	22:25 that will be lost and e responsible for
18:34 claims and actually we could question	22:27 the catastrophic
8:37 the science behind	22:28 environmental damage caused by
18:38 their uh, I call it prohibition actually	22:31 unsustainable
18:41 because	22:33 corporate facing agri industries
18:42 we're at um 1.1	22:36 so we continue on on an unsustainabl
<mark>18:46 of a milligram of</mark>	22:38 path
18:50 THC	22:39 down a path that's already leading us
20:09 micrograms okay so the difference	22:41 into a crisis
20:11 between a gram	22:42 and prolong the human deficiency
20:13 and a microgram is one million a factor	22:44 actually and this is
20:16 of one	22:45 interesting of cannabinoids
20:17 million right so there's one million	22:49 from the recommended daily
20:20 micrograms	22:52 intake uh allowance uh the required li
20:22 in that gram a speck of dust	22:56 for minerals and vitamins so actually

385	22:57 cannabinoids should be on	25:16 now actually we can highlight
386	22:59 that list currently they are not	25:18 where the language around THC the
387	23:03 also so just to give you an idea of	25:21 language our attempt to rank for
388	23:06 where i'm coming from with the whole	25:22 cannabis is very provocative let's say
389	23:07 idea of prohibition um	25:25 when we just we talk about uh caffeine
390	23:09 there's many pro here's many	25:28 or sugar
391	23:13 substances that could easily given	25:28 it's a mood enhancer when we talk about
392	23:16 the same criteria the same scientific	25:30 um cannabis
393	23:20 you know and studies let's say the same	25:31 our THC it's a toxin you know it's so
394	23:23 scrutiny yeah exactly and they might	25:34 you know we have to be equal
395	23:27 end up finding themselves banned as well	25:35 uh just equal the language
396	23:29 so like caffeine i mean	25:41 these companies i know it's probably not
397	23:32 caffeine i'll just go into them really	25:43 terribly clear but you have no
398	23:33 quickly because i know i'm being told	25:45 problem recognising who they are these
399	23:34 i've	25:48 are the corporate
400	23:35 minutes left caffeine alcohol	25:49 facing industries i'm talking about food
401	23:39 or tobacco	25:52 producers
402	23:43 sugar um nutbeg	25:53 um none of these companies have any
403	23:47 myristasin as a leucitogenic oddly	25:55 qualms about using
404	23:49 enough and poppy seeds we all know poppy	25:57 caffeine sugar whatever i mean actually
405	23:51 seeds	26:00 if you want to know how addictive sugar
406	23:52 10 micrograms is considered safe of the	26:02 is try giving it up
407	23:55 codeine of morphine that's in poppy	26:04 try giving sugar up and you'll know very
408	23:57 seeds 10	26:06 clearly
409	23:5 that's 10 times what's considered safe	26:07 how addictive it actually is and yet
410	23:59 THC	26:10 it's
411	24:01 and we're allowed cheese contains	26:11 okay there's sugar tax on certain foods
412	24:05 um tryptophan which makes you feel	26:14 but it's
413	24:08 relaxed and calm i didn't have my cheese	26:14 accepted there is no language around
414	24:11 this morning	26:17 sugar that makes
415	24:12 red meat also contains tryptophan so i	26:18 it in syndry let's say
416	24:15 mean	26:22 so to future proof the hemp industry um
417	24:16 it's the vocabulary around um these	26:26 we need to actually disentangle
418	24:19 these are in the foods these are we eat	26:28 ourselves from
419	24:22 these foods to	26:29 the history of prohibition from the
420	24:25 to feel a positive to feel the positive	26:31 historic language
421	24:27 effect not only from the nutrition	26:33 around hemp around THC
422	24:36 contains an	26:36 and we need to challenge the claims that
423	24:36 anandamide uh and tryptophan actually	26:39 the
424	24:40 um ananda means bliss	26:40 FSAI the FSAI
425	24:43 that's what ananda means it's the amide	26:42 are making and create a sensible
426	24:46 is protein so it's the bliss protein	26:45 legislation so if
427	24:48 and in cocoa	26:46 if they had have come before they wrote
428	24:52 a broad beans have a substance or a	26:48 the report if they had to come to the
429	24:54 molecule called el dopa	26:50 industry
430	24:56 which is used a psychoactive used in the	26:50 they would have got a much more balanced
431	25:00 treatment of parkinson's disease	26:52 view actually
432	25:02 so these are these i mean this is a tiny	26:54 the um international and international
433	25:04 list compared to what's actually out	26:57 narcotics control board
434	25:06 there	27:01 they well first of all they say hemp
435	25:06 in our foods what we are and this is	27:02 isn't isn't on the list it doesn't
436	25:08 where i'm saying the	27:05 fall under and the control of drugs act
437	25:09 the science of food is changing right	27:09 and it's misleading to put it under
438	25:13 um and so what was the problem for us	27:11 there but
439		

440	27:12 these corporate actors	29:01 in it's not like sean said it isn't
441	27:16 purposely mislead governments	29:02 going to happen overnight
442	27:20 uh government agencies um	29:03 it's going to take a couple of years we
443	27:23 so that they can bring in their own	29:06 need to
444	27:26 agenda	29:07 get the experience become
445	27:26 actually is the truth of what's going on	29:10 hemp farmers so that doesn't happen
446	27:31 we need to we need the opportunity to	29:12 overnight for sure
447	27:33 really reduce	2).12 overlinght for said
448	27:35 reduce the to uh	
449	27:39 release rather the um the duel that hemp	Favours criminals to have prohibition or they have no busi-
450	27:41 actually is	ness, they will lobby government to keep illegal
451	27:42 it's really important it has a huge	
452	27:44 value um	1.4. Anita Hemmila speaks at the Hemp Federation
453	27:48 industry needs	Ireland Conference on the reintroduction of hemp
454	27:50 upwards ny small industry to get	in Finland and elsewhere https://www.
455	27:52 started needs upwards of a thousand	youtube.com/watch?v=iRXjLMoyJCc and
456	27:53 acres	was not coded as the majority of the presentation is
457	27:54 okay so that's where we're at	a history of hemp in Finland and not relevant to the
458	27:58 there i don't think there may be one or	research question
459	28:00 two industries in the country that are	09:42 really focusing on the fibre
460	28:02 close to a thousand acres but you know	09:44 which seems to be the case with all the
461	28:04 to get the to get enough product behind	09:46 people that start
462	28:06 you to go to market	09:47 uh start with him during modern times
463	28:07 you've got you're talking about a	09:50 that they focus on the fibre aspect
464	28:08 thousand it doesn't matter what your	09:58 in the police or the police will not
465	28:09 product is it doesn't matter at all	10:01 perhaps
466	28:11 you're going to need	10:02 drug content so although we were using
467	28:12 uh you know to really hit the world	10:05 these trends variety
468	28:14 market you're going to need a thousand	10:08 which are very low in THC as the most
469	28:16 acres at least	10:13 probably more already nevertheless uh
470 471	28:18 hemp can out pay i'm not going to i'm not	10:17 by bringing this issue up in the in the
471	28:20 going to put a figure 28:21 figure on it sean it it can out pay any	10:20 newspaper
473	28:24 other agricultural crop	10:21 you know it becomes sort of a bigger
474	28:25 no question if we are allowed the value	10:24 thing that what really was in the end
475	28:29 that's there	12:30 and the police however the situation is 12:34 not yet clear for the authorities
476	28:30 okay and the global abundance program	12:36 in this hankasami case the police were
477	28:33 which marcus will talk about	12:39 afraid of possible side effects
478	28:35 is another way of future proofing the	12:41 and unauthorized visits to the hemp
479	28:37 industry it's a very interesting um i	12:44 field
480	28:39 don't think he's	12:45 says the crime commission commissioner
481	28:40 going to touch on it for much but he'll	12:48 paulie huskin
482	28:41 give you a little bit more information	12:49 the central police discusses the
483	28:42 about this global abundance	12:51 principles concerning comparable future
484	28:44 program and the regenerative farming	12:54 cases today
485	28:45 that what shawn has talked about	12:55 advanta representation from the ministry
486	28:47 Ireland will be will sorry will Ireland	12:58 of agriculture
487	28:50 be	12:59 and forestry is also so
488	28:51 first to market or will we just lag	13:03 as you can see from this article the
489	28:52 behind and	13:06 emphasis is very much
490	28:54 lose miss an opportunity that and in	13:07 on the legality or the possible
491	28:57 order to do	13:11 illegality of what we were doing
492	28:58 to take up the opportunity we have to be	13:14 and that's why the hemp field was cut
493	28:59 prepared to put a little bit of effort	13:17 down

495	4:02 emphasis	22:43 but land accounts for 61% of our human
496	14:03 of the police needing guidelines for	22:47 methane emissions that's
497	14:05 help hemp cultivation	22:50 ruminants and rice primarily ruminants
498	15:23 and that's why we had unwanted disciples	22:57 and fifty percent of the nitrogen
499	15:26 there	22:59 applied to agricultural land as
500	15:26 were some youngsters that came to	23:01 fertilisers is not taken up by the crop
501	15:30 get some plants when they were still	23:04 and results in n2o emissions and then to
502	15:31 growing there so	23:06 n2o us another greenhouse
503	15:33 that is the side effects the unpleasant	23:08 gas so you need to be very smart in your
504	15:35 side effects that the police	23:11 application of fertiliser if you don't
505	1	23:13 want to leave a greenhouse gas footprint
506		23:15 on the
507	1.5. Stefan Nolker Wunderwald speaks at the Hemp	23:16 on the atmosphere
508	Federation Ireland https://www.youtube.	23:20 grazing lands are responsible
509	com/watch?v=khPSdKM39YU Germany	23:23 for more than one-third of the total
510	perspective	23:25 anthropogenic
511	perspective	23:27 n2o emissions and one-half of
512	A history from a German perspective. Not included as	23:29 agriculture
513	transcripts provided for by You Tube is broken between	23:31 emissions so
514	English and Germany and also the context is from a German	
	perspective.	23:34 ruminants really are the bad boys here
515	rr	23:36 there is no getting away from that
516	1.6. Professor Peter Thorne Climatologist NUI	23:38 scientifically there is no way of
517	Maynooth speaks at the Hemp Federation Ireland	23:40 sugarcoating that message
518	Conference, expanding agriculture practices to	23:42 scientifically it is ruminants that have
519	reduce our national carbon footprint	23:46 the greatest intensity
520		23:48 greenhouse gas intensity of any
521	https://www.youtube.com/watch?v=	23:51 agricultural production
522	7EaqpU0U-Lw&t=1342s	23:54 about a quarter of the mitigation
523	21:34 and in a joined up way which land has to	23:56 pledged under the Paris agreements is
524	21:36 be part of the solution but land can't	23:58 likely to come from land-based
525	21:39 do it all	24:00 mitigation so from the agricultural
526	21:42 we have options the good news is several	24:02 sector
527	21:46 of those options	24:06 the largest potential is for reducing
528	21:47 do not increase the competition for land	24:09 emissions
529	21:51 so we can enact a solution that does not	24:09 through reduced deforestation or forest
530	21:53 so we can chact a solution that does not 21:53 compete with other solutions	24:13 degradation
531	21:55 or other uses of the land	24:15 a shift to plant-based diets and reduce
532		24:19 food and agricultural waste now the ipco
533	22:00 but land use contributes about one	24:22 can't tell people to go vegetarian
534	22:02 quarter of current global	24:25 but it is saying that if you want to
535	22:04 greenhouse gas emissions	24:28 reduce the greenhouse gas emissions
536	22:07 at the same time land ecosystems	24:30 you do need to become more vegetable
537	22:1 particularly undisturbed ecosystems	24:34 based in your diets
538	22:13 can take up huge amounts of carbon	24:37 response options the mitigate global
539	22:18 some of the mitigation options include	24:42 warming will also affect the climate
540	22:20 things like improving the peatlands	24:43 locally and regionally
	22:25 but there are barriers there are always	
541	22:27 barriers to implementing adaptation and	24:45 so if you change the land use if you
542	22:29 mitigation options there are always	24:47 change the irrigation you will change
543	22:31 entrenched	24:50 the surface characteristics and that
544	22:32 interests so gross emissions from	24:53 will affect the climate
545	22:35 agriculture forestry and other land use	24:58 locally
546	22:37 make up about a third of the total	25:00 strong land-based mitigation
547	22:39 greenhouse	25:04 scenarios include emissions reduction in
548	22:40 global emissions	25:07 other sectors
549	22. 10 Stood officions	

550	25:09 and limiting to one and a half or two	27:25 degradation on the other hand
551	25:13 degrees would require conversion of	27:29 will increase emissions and reduce
552	25:15 large	27:32 carbon sinks inconsistent with
553	25:15 swathes of land for afforestation	27:36 the emission reductions required to
554	25:19 reforestation and bioenergy crops	27:38 limit global warming to one and a half
555	25:24 so we need to requisition the land that	27:39 to two degrees
556	25:26 is currently grazed	27:40 so if we continue business as usual if
557	25:28 for example and reforest it	27:42 we continue the over production over
558	25:32 and use it to burn bio energy to	27:45 exploitation degradation of land
559	25:35 to grow bioenergy crops	27:47 fundamentally
560	25:39 the good news is the land that we are	27:49 it will become much much harder to meet
561	25:40 already using could feed the world in a	27:51 one and a half
562	25:42 changing climate and provide biomass for	27:52 two or any other climate target the more
563	25:44 renewable energy	27:55 we degrade and overuse the land the more
564	25:46 but there's always a but it would	27:57 the land turns into a net carbon
565	25:48 require early and far-reaching action	28:00 source and the harder it gets to
566	25:51 across several fronts the land	28:02 maintain
567	25:54 degradation adversely affects people's	28:03 the climate where we want it to be
568	25:57 livelihoods	28:09 what do we need to do to move this
569	25:58 and occurs over about a quarter of the	28:11 forwards well we need a mix of policies
570	26:00 earth's ice-free land areas	28:15 we need regulation we need land use
571	26:03 and it may not feel like it but there	28:18 zoning
572	26:05 are almost certainly is land degradation	28:19 land sparing and land sharing approaches
573	26:08 going on in Ireland	28:22 and that's where
574	26:10 there are soils today which are	28:23 for example the re-imagined cap could
575	26:12 impoverished	28:26 come in
576	26:13 compacted less productive	28:27 if we do cap well the common agriculture
577	26:17 that you get into this vicious cycle of	28:30 policy well and tier one and tier two
578	26:19 applying more and more fertiliser	28:32m well
579	26:21 and pesticide to keep the land as	28:33 we could imagine a payment structure
580	26:24 productive as it once was	28:36 that actually rewarded
581	26:28 so land use changes and unsustainable	28:38 doing the right thing in the right place
582	26:31 land	28:42 sightings of renewable energy needs to
583	26:31 management are direct human causes of	28:46 be
584	26:34 degradation	28:47 consistent with local livelihoods and
585	26:36 and agriculture is dominant in that	28:50 needs we need to inc include
586	26:38 degradation	28:54 costs of environmental effects
587	26:41 climate change exacerbates those	28:56 fundamentally
588	26:43 underlying issues	28:58 we need to worry about land tenure
589	26:45 fundamentally	29:03 we also need to worry about voluntary
590 501	26:50 so land degradation is the driver of	29:06 changes by citizens 29:07 not the farmers themselves necessarily
591 592	26:52 climate change 26:55 a degraded land holds less carbon it	29:10 but citizens
593	26:58 actually releases carbon	29:10 but citizens 29:13 are they going to change diet standards
594	27:00 so when you impoverish the land your	29:16 certification collective action is
595	27:00 so when you impoverish the land your 27:02 land changes from perhaps say	29:19 is movement going to occur from the
596	27:05 net sink to a net source	29:19 is inovement going to occur from the 29:20 citizens
597	27:08 so you exacerbate the problem and in	29:23 persuasive this is where again where the
598	27:11 some cases land	29:26 cap can come in payments for ecosystem
599	27:11 some cases rand 27:12 degradation can be either avoided	29:29 services if part of the cap payment
600	27:12 degradation can be either avoided 27:14 reduced or reversed by	29:32 is hedgerow maintenance which maintains
601	27:14 reduced of reversed by 27:16 implementing sustainable land management	29:35 the healthy ecosystem
602	27:18 restoration and rehabilitation practices	29:37 all the better
603	27:23 lack of action to address land	29:42 early warning systems and risk
604	The state of the s	27.12 carryaming by seems und risk

605	29:45 risk sharing mechanisms	32:08 in the system and politics
606	29:48 so they're talking about a broad kind of	32:12 policies markets institutions and
607	29:54 parchment that you have to fill in there	32:15 governance and meet needed to make that
608	29:58 are many things that have to happen	32:17 change
609	30:00 to get movement in this land use	32:18 but as i said better land management can
610	30:04 so there is limits to adaptation and	32:20 play its part in tackling climate change
611	30:09 land-based carbon sinks there are limits	32:22 but it can't do it all
612	30:11 to what we can do this	32:24 what are the options land challenges and
613	30:13 is all about that land can do part of	32:28 response options vary based upon region
614	30:15 the problem but can't do it all	32:31 and context which means Ireland's
615	30:18 we can't take everything on land	32:33 response options are different to
616	30:22 and land management we have to do other	32:36 brazil's
617	30:25 things	32:37 but equally donegal's might be different
618	30:26 coordinated action to tackle climate	32:40 from wexfords
619	30:28 change can simultaneously improve the	32:42 so there is a need to recognize
620	30:30 land	32:44 differentiated opportunities
621	30:31 food security and nutrition and help to	32:46 and options
622	30:33 end hunger	32:50 some options a plus a win-win
623	30:36 so one of the crazy things is that	32:56 most options can be applied without
624	30:39 uh currently nearly a billion people are	32:58 competing for the available land
625	30:43 currently under now	33:02 but some options could greatly increase
626	30:44 undernourished while two billion adults	33:08 competition
627	30:48 are either	33:10 bioenergy and BECCS which is bioenergy
628	30:48 overweight or obese it's not that we	
629		33:18 are scale dependent but they have a
	30:51 don't	33:19 large mitigation potential so if we can
630 631	30:52 have enough food it's that we don't	33:22 grow
632	30:54 distribute that food equitably across	33:22 instead of burning coal at money point
633	30:56 society	33:25 we could grow
634	30:59 but the food system is under pressure 31:02 from non-climate stressors	33:26 a sustainable crop and burn that at 33:29 money point
635		33:30 and furthermore capture that carbon as
636	31:05 and from climate change 31:09 climate change is already affecting food	33:32 it's
637	31:11 security	33:33 that carbon from that burning process
638	31:13 through increasing temperatures changing	33:36 and
639		33:37 store it deep in the ground then we
640	31:15 precipitation patterns 31:17 and extreme events and it's going to get	33:40 could remove carbon from the system
641	31:20 worse	33:44 mono culture bio energy crops they
642 643	31:22 and distribution of pests and diseases	33:47 can result in land competition and have 33:50 adverse effects for
644	31:25 will change affecting production 31:27 negatively in many regions	
645	31:33 so food and emissions	33:52 food land degradation biodiversity and 33:54 water scarcity
646		33:57 which is that the potential for
	31:36 25 to 30 globally of emissions down to a	
647 648	31:40 food	33:59 mitigating climate can only be realised
	31:40 production	34:01 if agricultural emissions are included
649	31:45 we can do better supply side practices	34:03 in mainstream climate policy
650 651	31:47 can help mitigate climate change by	34:06 we cannot continue what has been the
651	31:49 reducing crop and livestock emissions	34:08 case at the national level
652	31:51 absorbing carbon in soils and biomass	34:10 of agriculture constantly bleeding
653	31:53 and decreasing emissions intensity	34:13 special case
654	31:58 consumers can do their best in terms of	34:14 agriculture needs to be in the
655	32:00 their diet	34:16 mainstream of our climate policy if it
656	32:03 and we can all do a bit better on	34:19 is to be effective
657	32:05 reducing the massive amount of loss and	34:23 acting early will avert or minimise
658	32:07 waste that occurs	34:26 risks reduce
659		

660	34:27 losses and generate returns on	36:42 year-on-year
661	34:32 investment	36:43 because that two percent is the effect
662	34:34 measuring progress towards goals is	36:46 of the co2
663	34:36 important to decision making	36:47 oxidation escape pathway of methane
664	34:37 adaptive governance and policy success	36:51 so we can't keep the herd the same we
665	34:41 and we need a flexible adaptive	36:53 can't keep the herd emissions the same
666	34:44 iterative approach	36:55 we're actually
667	34:46 so those are the two special reports	36:56 incrementally adding to our greenhouse
668	34:49 what the heck does this mean for us	36:58 gas burden
669	34:51 nationally in our national context	36:59 but the bigger issue here is think about
670	34:58 well our agriculture sector for a	37:03 natural island without human
671	35:01 developed nation we have a huge	37:04 interference there would be a
672	35:03 proportion of our emissions	37:06 vanishing small number of ruminants on
673	35:05 in agriculture the norm in a developed	37:09 the land
674	35:08 nation	37:11 so our natural methane emissions from
675	35:09 is that we have five to ten that they	37:14 ruminants would be as close as damage
676	35:11 have five to ten percent of their	37:16 zero so they're elevated
677	35:13 emissions profile is agriculture we have	37:21 due to our influence saying well now
678	35:16 a	37:23 we've elevated them we can't do anything
679	35:16 third so we have a huge	37:25 doesn't seem to me to be a fair and just
680	35:19 challenge and everybody recognises that	37:29 way to think about a transition when we
681	35:22 agriculture is the hardest nut to crack	37:31 have a finite amount of carbon that we
682	35:25 but if we're going to get to net zero	37:34 can
683	35:27 we're going to have to crack it	37:34 emit if we're to keep globally between
684	35:29 and the challenge is going to be for	37:37 one and a half or two degrees
685	35:31 Ireland how to do that	37:39 it isn't an argument that to me makes
686	35:35 why is it such a problem well our	37:41 any sense
687	35:36 predominant farming is of ruminants	37:46 what can we do well we can diversify
688	35:39 cattle and sheep that emit methane which	37:49 and in here this is a bar chart the
689	35:41 is a powerful greenhouse gas	37:53 length of the bars
690	35:45 it's also a short-lived greenhouse gas	37:54 is the total carbon intensity
691	35:47 it has 9 to 11 year half-life and you	37:57 of different food types and basically
692	35:49 will have heard in the news	38:00 the top four bars
693	35:51 this it doesn't matter because it's	38:01 here are various types of cows and cows
694	35:53 short-lived	38:05 and sheep
695	35:54 and it doesn't matter because it it	38:06 and everything else is everything else
696	35:57 gets removed quickly and therefore we	38:09 so fundamentally whatever we diversify
697	36:00 shouldn't be beaten over the head for it	38:12 away from that isn't cattle
698	36:03 well there's a couple of problems with	38:15 and sheep we will reduce our
699	36:05 that	38:18 impact upon the environment why else
700	36:07 one is that methane's primary means of	38:21 would we
701	36:10 removal there's oxidation	38:22 diversify well it would increase our
702	36:12 in the troposphere and that oxidation is	38:26 national resilience if we produce more
703	36:14 the water vapor and carbon dioxide	38:28 of what we consume
704	36:18 so you swap one very powerful	38:30 we can grow broccoli and yet we import
705	36:20 short-lived greenhouse gas	38:33 it from south east spain
706	36:22 three much less powerful but very very	38:34 why it doesn't make any sense
707	36:25 much	38:39 it would also reduce our dependency upon
708	36:25 longer-lived greenhouse gas	38:41 a single market
709	36:29 so actually if we wanted to keep	38:43 we are fundamentally dependent upon the
710	36:31 Ireland's	38:46 price point of beef
711	36:33 total agriculture sector contribution	38:48 as has been very well been shown and
712	36:36 stable we would need to reduce the	38:52 dairy products if the market full bottom
713	36:39 national herd emissions two percent	38:54 falls out of that market
714		

38:57 there's nowhere to go because the sector	41:04 regulating water flows
38:59 is uniquely dependent upon that one	41:07 the Shannon would not have flooded like
39:02 source of income that one market	41:09 it has in this last month
39:07 it would reduce the risk profile of the	41:11 if we had retained our up our raised
39:09 sector to out	41:14 peat bogs over the midlands
39:10 outbreaks of pests and diseases and i	41:16 they would have soaked it up they would
39:12 know when I've said this on national	41:18 be releasing it over the entire
39:14 media I've been	41:20 summer season we've denuded them
39:15 pilloried for it but hopefully covid 19	41:23 and they're not there any longer so we
39:18 is a wake-up call to people that new	41:26 need appropriate and profitable options
39:22 pests and diseases	41:29 to the particular context of each farm
39:23 new virulent forms of disease	41:32 not every farm will be able to grow a
39:27 can and will come up they come up to	41:35 given crop
39:28 humans they come up to	41:37 but we need to give each farm a range of
39:31 cattle and other animals why	41:39 options that are actually sensible and
39:35 run the risk when you can diversify the	41:41 that are
39:38 sector	41:42 not prescriptive but are avoiding them
39:40 you should also address the biodiversity	41:45 making the wrong choices
39:42 challenges that we have	41:47 we need community buy-in and we need it
39:45 and it can also be diversified into	41:49 to be a just transition
	41:51 if someone spent a hundred thousand
39:49 other things	
39:50 all those roofs on the on the milking	41:54 euros on a new milking parlor
39:53 sheds	41:57 we can't just say hard luck you're no
39:55 they could capture that sun if we got	41:58 longer allowed to grow
39:58 our energy market right	42:00 you're no longer allowed to produce
39:59 you could export it onto the grid and	42:02 dairy you've got to do something else
40:02 you could have a base	42:04 without any recompense at all we have to
40:04 um income that had nothing to do with	42:07 have a just transition for the sector
40:06 agricultural production at all but	42:09 the sector absolutely needs to diversify
40:08 actually was about	42:13 in many different ways so that we are
40:10 how you use the land to produce energy	42:15 not dependent upon a single market a
40:12 in addition	42:17 single product
40:14 what does it need <mark>it needs incentives it</mark>	42:18 patchwork quilt island sounds very nice
40:16 needs cap reform and national policy to	42:20 to me
40:18 be lined up we need to stop	42:22 it's robust it's diverse
40:21 supporting fundamentally	42:26 it supports the robust and diverse rural
40:24 the development of specialisation in	42:28 economy so
40:27 beef	42:30 that's all I had to say on climate and
40:28 and dairy and we need to promote	42:32 well i think we should be going
40:31 diversification	
40:32 we fundamentally need the right choices	
40:35 in the right place	1.7. Ed Hanbridge speaks at the Hemp Federa
40:36 which means we need a national land use	Ireland Conference on Why join the Co O
40:38 plan that is non-prescriptive	https://www.youtube.com/watch?
40:41 so we need to understand what we have	z3br2_wv4sU
40:43 where in terms of land	23D12_WV4S0
40:45 and what is possible to grow where what	00:20 now uh the co-op is going on the seven
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40:51 and we need to avoid silly things like	00:26 of it let you have
40:53 putting planting forests on peat bogs	00:27 your personal well-being being the likes
40:55 peat bogs are really our friends	00:29 of your CBD
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825	04:38 the more information is gathered and the	06:26 benefits such as getting cheaper
826	04:40 more that	06:28 products then through the co-op
827	04:41 information then can be used for people	06:29 so that's another advantage
828	04:44 coming afterwards	06:35 people have different reasons for
829	04:46 uh the price of things is a big thing	06:36 joining the co-op
830	04:49 as well that	06:39 most people it's it's financial it's to
831	04:50 you'd be hoping with the co-op you will	06:42 make more money
832	04:52 have a more buying power for a start	06:44 but you have to have a common goal most
833	04:55 that say for the likes of sowing season	06:46 people
834	04:58 isn't too far away now	06:47 that are going to join a co-op will have
835	04:59 that you'll have buying power there for	06:48 that common goal and it is to see the
836	05:01 buying your seed	06:50 hemp
837	05:02 even the machinery that's needed um	06:51 flourish it's to get to
838	05:06 i don't know if the co-op is actually	06:54 see an industry development from this
839	05:08 going to buy the machinery but it will	06:57 plant
840	05:10 be able to promote any of the people	06:57 because we all know that this plant is a
841	05:13 that have machinery in the co-op	06:59 good one and um
842	05:15 and that you're known and it's it's	07:03 but you can also uh
843	05:17 really all about advertising as well	07:07 you will get different uh benefits like
844	05:19 that	07:09 the access to different things through
845	05:20 once you the the marketing side of	07:11 your co-op
846	05:21 things is	07:12 and that might be a benefit of joining
847	05:23 vital that marketing once you start you	07:14 your co-op
848	05:26 can't stop because people do forget easy	07:15 that's you'll get first choice on the
849	05:29 so you need to start that marketing	07:18 products
850	05:32 and then you'll have that brand then	07:19 to be sold or you'll get your seed
851	05:34 behind you that	07:22 you'll get the first
852	05:36 if you have supplied the co-op and they	07:23 dibs on seed different things like that
853	05:37 have products on the shelf or	07:26 um
854	05:39 they'll they'll advertise your products	07:27 the refunding then is is just that
855	05:42 to	07:30 same thing that you can get the
856	05:42 the other members it it's advertising	07:32 discounts on seed when you buy it in
857	05:45 and it's a	07:34 bulk
858	05:46 way of getting your product out there	07:36 and um but the dividend i suppose is the
859	05:48 and that's what	07:40 main one that you will join the
860	05:49 um i'm finding with the hemp trade	07:41 co-opters as a collective you should
861	05:52 that the whole hemp enterprise at the	07:43 make more money
862	05:54 minute	07:45 and that's what a lot of things boiled
863	05:55 that the hype of things is	07:48 out at the end of the day
864	05:58 quite high but it can be hard enough to	07:49 is actually making money profit is is
865	06:02 get out there and start selling	07:52 not a dirty word or anything so it's
866	06:03 that when you're in the field doing what	07:54 it's about making money and then
867	06:06 has to be done	07:57 people that just want to be involved in
868	06:07 you might not necessarily be out on the	08:00 the whole thing that they see the hemp
869	06:09 road selling	08:01 as
870	06:10 and with a co-op then there'll be more	08:02 the the future and they want to be
871	06:12 people involved there'll be	08:05 sustainable environmentally friendly and
872	06:14 there will be sales people not all of	08:07 there is
873	06:16 them will be farmers	08:08 that side of it then as well
874	06:18 and it's about having everyone sort of	08:12 um so
875	06:20 working together	08:16 a cooperative in general i suppose is
876	06:21 to get the products out there and get	08:18 looking to be profitable
877	06:22 them sold	08:20 and that will make the social side of
878	06:24 and and then those members will have	08:24 things like the
879		

880	08:25 once it's profitable it'll be creating	10:16 to show
881	08:26 new jobs	10:21 you don't know me where the hell is
882	08:28 so if we can have more jobs than locally	10:23 producing hemp
883	08:30 that's what we want to see	10:25 improving their soil health and widening
884	08:32 and by that then your your the whole	10:29 their product range they grouped
885	08:35 local economy will do better	10:31 together
886	08:37 and um when it's sustainable	10:32 from this cooperative included
887	08:41 uh i mean there's no reason why we can't	10:35 architects and processors
888	08:44 do it so if it's sustainable	10:37 of this very interesting culture and are
889	08:45 the the whole rural side of things will	10:40 now producing more and more hem
890	08:48 get better and	10:43 for various purposes
891	08:49 um i like being out in the country i'm	11:02 i first came across him when i was here
892	08:52 not a fan of being in the cities having	11:05 in Finland
893	08:54 to go to work that way	11:06 as part of a European project about
894	08:55 so i'd like to see the local people	11:09 traditional food
895	08:58 doing	11:11 as a biochemist i just fell in love with
896	08:59 uh doing better out the whole industry	11:14 the flash when i realised how much it
897	09:02 and it's to be self-sufficient then as	11:16 was doing
898	09:05 well that when you have the co-op it'll	11:17 and what also interested me as an
899	09:07 be	11:19 environmentalist
900	09:08 um everyone will be working together	11:21 is the fact that it has stopped the good
901	09:11 so that's really what has about has been	11:23 plan for saving the planet
902	09:13 included in it	11:27 i grew two atheists and one of my
903	09:15 and um	11:30 journalist friends i didn't like to do
904	09:19 yeah it's it's for our young people	11:32 an article about it
905	09:21 then as well coming	11:34 when the newspaper article appeared we
906	09:23 behind us like i have three kids and i'd	11:36 had a lot of temperatures
907	09:26 like to see them	11:38 and then Jim Lima arrived with
908	09:27 get a job locally not have to go to	11:41 and said would i be interested in
909	09:29 Australia or	11:44 getting together a group of people
910	09:31 New Zealand wherever so that's another	11:46 to grow him it all started from there
911	09:34 side of it that	11:52 we were amateurs at drawing hemp when we
912	09:35 i want to see the younger people	11:54 were after amateurs are
913	09:38 look at him nownot as a as a taboo but	11:55 setting up cooperatives but we've
914	09:41 as something that they're going to use	11:57 learned that we're getting there
915	09:42 in their daily lives	
916		
917		1.9. VIDEO Edward Hanbridge farmer and board
918	1.8. Video Kate Carmody Chairperson of Hemp	member of hemp Cooperative Ireland
919	Cooperative Ireland	
920	•	12:00 i suppose i was one of the only farmers
921	09:49 through the co-op i've had a better	12:02 that had
922	09:50 chance of success and	12:03 uh experience in growing them i started
923	09:52 i've found some markets through the	12:06 looking at him
924	09:56 co-op	12:07 back in 2015.
925	09:57 and i've been getting that help and	
926	09:59 trying to	
927	10:01 find your way through all the	1.10. VIDEO Jack O' Connor board member and
928	10:02 legislation that there is at the minute	Hemp Cooperative Ireland
929	10:04 is tricky	12.07 we have a lot of
930	10:04 so when you have more people working on	12:09 underutilised land
931	10:07 it it's easier to	12:11 in our area once upon a time dairy
932	10:09 get through the problem and	12:14 farming
933	10:13 that's this is just a video i was going	12:14 and beef farming was very productive the
03/		12.11 and occi farming was very productive tile

12:17 beef just aren't making any money	14:01 workers our
12:18 anymore so we	14:02 processors let your imagination run wide
12:19 had to look at the alternatives recently	14:05 and it's not from smoking
12:22 hemp has come onto the radar	14:10 chemicals a solution for all of Europe
12:24 and we've looked around what i'm saying	14:13 if we change
12:26 we started the community	14:14 the legislation in Europe a lot of
12:28 in this rural park where we have serious	14:17 countries
12:31 issues with depopulation	14:18 are very negative about him because they
12:32 and children moving to the orbit areas	14:21 associate it with
12:36 can hemp is a great solution for farmers	14:22 marijuana so there's a big education
12:40 what we're doing is promoting them as a	14:25 project to be done
12:43 rotational crop	14:27 so when we started researching going
12:44 they get a valid crop which will more	14:29 ahead about two years ago we
12:47 than compensate for the	14:30 contacted the headquarters immediately
12:49 loss of animals it benefits the	14:33 it was a great support
12:53 environment to such a huge extent way	14:34 because it was an opportunity to teach
12:56 more than trees	14:37m each other what we were doing and learn
12:57 trees	14:38 from each other
	14:39 but also as the group has got larger and
	14:41 larger it
1.11. VIDEO Glynn Evans microbiologist and farmer	14:42 gives us an opportunity to speak to our
•	14:45 government and about the regulatory
12.57 I put hemp in order to	14:46 requirements and so it gives us a kind
13:00 reduce the co2 impact that I was having	14:49 of i suppose power numbers
13:03 hemp will take in approximately 10 tons	14:51 we're all talking we're all
13:05 to 15 tons of co2 per acre depending on	14:52 communicating with each other which
13:07 the variety that you put in	14:53 means then that we know
13:09 that's a huge reduction in co2 per acre	14:55 which method works best which method
13:12 so it's going to be a benefit to	14:57 didn't work
13:16 not only us but my kids	14:58 it's only collective that more the more
	15:01 people that are in it the more
	15:02 information we're going to get
1.12. VIDEO Laura Jayne Foley farmer and board	15:03 it's not economically viable to do this
member of Hemp Cooperative Ireland	15:06 on your own so the co-op
13:20 we live across the waterfront here in a	15:07 offers that in licensing and in
13:22 place called loophead	15:10 marketing
13:24 and um very similar conditions to Kate	15:11 and in advice and agronomy
13:27 Carmody	15.11 we have a
13:28 she's growing hemp and it's going really	15:14 good knowledge base that we have a bit
13:30 really well for her so once we knew we	15:17 of experience now between the different
13:32 could grow well in west coast	15:19 members
13:34 just continue to be researching it and	15:20 and it's it's all going to be very
13:35 it looks like a	15:22 beneficial going forward
13:37 great practical and lots and lots of	15:24 knowledge has been the big issue for the
13:40 uses	15:26 moment and learning
13:40 you know here's a plant that can help you	15:27 in the next two years funding
13:43 live a natural quality of life because	15:31 and the processing is going to become
13:45 it can be your medicine	15:34 the
13:47 it can feed your animals it can cloth	15:34 bigger issue because we will know better
13:50 you	15:36 work we want to do
13:51 it can house you what what do you want	15:38 in terms of processing and then
13:54 I believe the future for hamp island	15:40 obviously the marketing of the product
13:57 is enormous	15:42 has to be done in tandem with that
13:58 provides opportunities for farmers for	15:46 in the hemp cooperative two places the
13.30 provides opportunities for farmers for	1 1

990	15:49 members are farmers
991	15:51 but we have builders we have chemists
992	15:53 doctors
993	15:54 architects social activists people
994	15:58 who want solutions to the problem in
995	16:01 society
996	•
997	
998	1.13. VIDEO Declan Darcy hempcrete builder and
999	board member of Hemp Cooperative Ireland
1000	
1001	16:03 I first got involved with him as I'm a
1002	16:06 carpenter by trade and a customer asked
1003	16:08 me to build a hempcrete
1004	16:10 extension to their house so I've done
1005	16:13 some research
1006	16:14 and discovered a wonderful building
1007	16:16 material this is just
1008	16:17 a simple mixture the shiv mixed with
1009	16:20 live on water
1010	16:22 and it packed into these wooden
1011	16:26 cranes and it's just like you would with
1012	16:30 a concrete wall
1012	16:31 but you just pack it down so it becomes
1013	16:34 a solid block
1015	16:36 like this so this material will
1015	16:39 create a good quality installation
1017	16:42 that's a good one
1017	16:43 you know for the installation for the
1019	16:44 help of the people living in these
1019	16:45 buildings
1020	16:46 but for the help of the building itself
1021	16:48 as well this is the blocks
1022	16:50 we showed people how to make you could
1023	16:52 imagine
1024	16:53 an industry near an island producing
1025	16:56 hemp creek blasts for people
1020	16:58 when i discovered him i discovered
	17:00 something passionate about it
1028 1029	17:02 you know finally i find something that
	17:04 walks the top
1030	17:06 the hemp cooperative was actually
1031	17:08 registered in may
1032	17:10 2018 and then several of us
1033	17:13 registered it you know it all started
1034	17:15 taking off
1035	17:16 so we've gathered a lot of members most
1036	17:19 of our members
1037	17:20 are young farmers they want to farm they
1038	17:23 don't want to be driven away from the
1039	17:25 city
1040	17:26 the young people are looking to do
1041	17:28 something different
1042	17:30 and see this as a very exciting crop
1043	1 and see this as a very exerting crop

17:33 that offers lots of opportunities we do
17:36 it organically
17:37 and so it's regenerative farming and
17:40 young people
17:40 are interested in farming for nature
17:44 I think we need to
17:46 reinvent the paradigm of rural islands
17:49 and just make it an exciting and vibrant
17:52 place again
17:53 and to me hemp will do that
17:57 industrial hemp is a significant game
17:59 changer
18:00 in terms of not depopulating border
18:04 i would call it a flagship project

18:08 for the whole European union