**Multilevel Governance and the Waste Management Crisis in Campania – Webinar Transcript**

0:02

moment okay it's arriving it's a crazy world

0:15

[Music]

0:31

psychology [Music]

0:40

okay

1:11

campaign [Music]

1:23

[Music]

1:59

provide more information about the project sorry I was just typing I was just

2:06

inviting someone else are we are we going are we starting now just some information

2:14

about why companion why you choose Campania if you want to tell something

2:20

about this project in general yes now first of all before I

2:27

start I'd like to thank you all for your participation thanks a lot for taking

2:34

the short notice thanks to Professor Grosso to

2:39

Professor Humberto Arena and to Professor Roberta for

2:45

joining us now yes we are waiting for while we're waiting for Professor

2:50

Giuseppe now I'll tell you a couple of words why would choose companion

2:56

this is an EU project it's funded by EU and

3:02

the goal of this project is to kind of compare and contrast see some

3:08

experiences from places in Europe how has the multi-level

3:15

governance works and that bring that expertise and see what are we doing here

3:21

in in Australia and Company you know stands out we know we've heard it has

3:28

made all the newspapers you know we've since 2010 and you know with waste

3:36

management and what is happening and you know it's one of those cases that

3:42

I believe there is a lot to learn so that's why we have chosen this one as one of you know

3:49

one of our cases to discuss now my question was the guy that by a

3:59

simple consideration of the Raga so many sites in the world and particularly

4:04

also in Italy in this period that are in a true waste emergency

4:12

 capital of Italy Rome is one of the example and why the people in the

4:20

world continue to speak about us emergency companion that is now in the

4:27

past 12 or 15 years ago and that is strange I discussed about

4:33

this with my friend and collection Margaret also two days ago in an International

4:40

Conference because in my opinion there are too many people

4:46

in the world that still believe that it emerges in companion is

4:51

[Music] still active we had this period of 15 years

4:59

ago this situation has been completely overcome

5:06

I have to say thanks to a Western Energy unit

5:12

the finally solved basis of the problem and allowed to increase

5:21

in the separate collection and the possibility of

5:28

recycling at a high level

5:33

comparable to that over the average in Italy so in this situation is not clear

5:42

probably and but anyway if you can in in

5:47

some way provide information and advices for

5:52

other countries I would be available I lived that experience

6:00

in intense way because I was a

6:06

involved in Waste Management planning for Curious before

6:14

the emergency and during all the Americans periods

6:23

I prepared the two version of the waste management planning for the regional

6:29

companion I saw that not no one of these plants

6:38

were adopted and the only one which was

6:43

adopted was adopted with a delay of about five six seven years

6:51

the problem and

6:57

okay we can we can discuss if you like some other respect the pattern just to

7:02

explain to explain you because I wondering why again with emergency

7:08

company after 15 years anyways more than 15 years

7:16

 in a nutshell I'd say that is not picked as the best or the worst or

7:22

whatever it was just because something you know that to draw on that expertise of the of the

7:29

things how has that worked in terms of multi-level governance what has

7:36

been done in this case is a positive experience and I appreciate your comment Professor he's just you know

7:43

to draw on that expertise and you know make sure that you know we follow if there is anything good which I'm sure

7:50

there are a lot of good things that happened there in order not to close it down then definitely will draw that

7:58

no I I'm completely available I believe that the information I can give you are I can

8:07

give my opinion first of all a first

8:12

however it is I believe it is not useful if you like I can show you some

8:19

picture or some terrible situation some ways to cut a category that were

8:29

built in that period in in campaign particularly in the area of Caserta that

8:37

Roberta Piazza know well in in one of the most beautiful areas for food

8:44

production in the companion in company region I would like if I can take a

8:53

five minutes just to introduce the problem because I'm sure that Joseph

9:00

and Mario can give an important contribution

9:06

first of all my preliminary idea is that people in the

9:14

world people in Italy people in companion but people in the world has a

9:20

great problem about the distinction between municipals of the West and Commercial

9:27

industry with what we recall in Italy Specialists

9:33

it is a not clear to Citizen in that

9:41

commercial inducer with are the four times greater in quantity

9:48

and up to 10 or 100 more dangerous over

9:55

Municipal service but everybody not only

10:00

citizens but also newspaper media in general

10:06

policy makers in the world of policy is always continuously executed on

10:16

a municipal service with this me to visit

10:23

possible simple solution of everything separate collection solved the problem

10:29

that's it is so silly so stupid position

10:34

that clearly identify the problem they do not know the problem

10:41

policy the world of policy don't know the problem I participate in number of

10:50

[Music] meetings at the government of parliament level and my first project working was

11:01

to highlight the this terrible mistake

11:08

this is a unfortunately also the problem of companion because

11:17

Peaches newspaper TV and all the media

11:25

discusses the about Municipal service but the true problem

11:30

was and in fertility in a limited part but

11:37

he still is special industrial commercial waste

11:44

the municipal sideways problem has been solved

11:50

the industrial commercial Solid Waste problem

11:57

has not been solved in Italy in Europe and hazardous waste that

12:06

at the beginning where bullied in the north of Italy after some

12:14

years or have been buried in the south of

12:20

Italy now in the East country or in central

12:25

Africa that's the problem and everybody cover

12:32

this problem with this stupid solution separate collection that's important but it is a

12:40

so small step so ridiculous small step

12:47

sorry could I interrupt just with a question you talked about the municipal waste situation as being smaller and

12:54

being resolved can you discuss sort of was that resolved at the municipal level or was it resolved at the higher level

13:01

of government interesting question first of all I believe that this problem I mean

13:09

highlighting the importance of industrial commercial races should be

13:14

done at the at the national level because it initially in Italy I don't

13:20

know what is the situation in Australia but in Italy have this uh

13:26

absolutely crazy approach Municipal social waste that are so limited in

13:34

quantity so limited in uh

13:40

risk of danger and hazardous level are

13:47

must be treated by a local government

13:53

I mean original area the Indus and commercial with the special with we call

13:59

it we call them special Oasis that are three or four times more

14:05

10 or 100 times more dangerous can be treated by private companies it

14:13

is absolutely crazy it is great my opinion state the

14:20

the government must be manage

14:26

the situation for hazardous waste and probably a private company can trade or

14:34

manage a municipal service but this is a personal idea and that

14:40

just would like to alight different level of the problem Municipal

14:47

service and Commercial Industries anyway

14:53

coming back to the situation in a campaign the origin of the problem was

14:59

an interesting a positive decision in 1996 I believe when the regional

15:07

government in Italy the regional government as the role of Waste

15:13

Management planning for the municipal and indoor service

15:19

so a regional government decided about the cruise ship the stopover landfill

15:27

options in Camden the this was in principle a good idea

15:35

a good decision but

15:42

obviously required the a clear

15:49

Waste Management planning with a schedule of the actions very well

15:57

organized and with a series of steps that should be

16:05

should have been absolutely well respected

16:12

the in that period my University was asked to prepare the annual

16:23

the new Municipal service only Municipal Services

16:29

management plan even because in Italy you cannot move

16:36

Municipal service outside of the region but you can move a

16:43

Darkness or Industrial Service so the attention of the regional

16:50

government was mainly on Municipal service

16:56

this plan was indicated the necessity to reach a level of separate collection of

17:04

50 percent at adaptively in that tier the delivery was less than 10 percent of

17:11

separate collection an increase in

17:18

the dry recyclable recycling over

17:24

dry recyclable fraction and even though we are discussing about

17:33

1998 there was the clear indication to

17:38

frequency the attention not on composting

17:45

I mean aerobic digestion of biological waste but anaerobic

17:53

digestion this was a 20 five years ago at the beginning of the

18:01

development of anaerobic disasters there was also the indication to

18:10

individuate three ways to energy unit in

18:15

in the region for a total of about 1 million tons per year as a total

18:22

capacity I cannot

18:27

in I don't remember well but I cannot discuss about all the steps but

18:36

the obviously there was immediately the

18:43

NIMBY effect you can do anything but not closer to my

18:49

house and the first big

18:56

unbelievable mistake was it is not a problem we are the

19:02

governor the government we have the power we can impose the solution

19:10

the discussion was too much Limited the information was absolutely absent

19:19

I propose to involve

19:26

myself and my colleagues in discussion in discussion around the region we made

19:33

about I don't know 10 or more meeting in some different uh

19:42

city small city medium city a large city

19:47

but this was just a drop in a sea

19:54

over lack of information this was the

20:01

unbelievable mistake I remember that in that period I asked the support of one of my

20:12

my store [Music]

20:20

know very well which was one of the most important chemical engineers in the

20:28

world the father of a life cycle assessment in the world and it was involved in UK

20:37

in a similar decision or process he come to the in the

20:46

top management room of the company region

20:52

explaining that should be must be different

21:01

that in UK they organized 10 20 or 30

21:07

meetings and individuating small group of people

21:14

to which have some deepening over the of

21:20

the different aspect and

21:26

that this process requires a lot of time

21:31

all the time that is necessary is a

21:38

suggestions were not accepted or not utilize it

21:47

the idea was to do a very large

21:53

very large don't worry I'm cool I can stop also here that was the problem

21:59

and [Music] discussion decision

22:07

process continued in this way without contact with Citizen and the

22:15

social group and so on the

22:22

consequence was that

22:29

opposition to the Western Energy units was a very strong and the

22:36

government of company decided to change completely the idea contained in the

22:42

plan which was to and they decided to

22:48

substitute the to to the alliance in all the sites

22:55

where in the past were present landfills

23:00

a number of seven six or seven

23:07

material recovery facilities to prepare to refuse the rabbit

23:15

field and these step was immediately realized

23:21

it but this creates the problem that you know unbelievable uh

23:31

amount of over this of the product of this

23:42

of this I don't know if you are able to see picture

23:48

yes thank you okay and this is the an area a beautiful area in

23:56

Campana close to Caserta and this was the unbelievable number of uh

24:07

the harm it's that for six million stones of balls

24:15

that I mean this strange amount of

24:26

Southwest around region [Music]

24:31

in that all waiting the wasteful energy unit

24:41

when I was trying to geonet has been constructed with necessity with

24:50

involvement of the Italian Army and to avoid in your position

24:56

 problem has been solved in a few months and the separate collection has

25:03

been increased up to 50 percent and that this Municipal service problem has been

25:08

solved a similar situation but they stop here is for the treatment of special waste

25:16

because there is an opposition to the construction of a industrial

25:24

commercial waste treatment in Campania this is the same situation Cecil the

25:30

same situation in Calabria I mean north and south of Italy this means that all

25:37

the special examples with are moved towards

25:43

Emilia Romania and Lombardy and Veneto with unbelievable ghosts and

25:52

not sugar fate and this is the reason for which the

25:57

problem of commercial and do Services waste management is not

26:04

completely solved still now sorry I take too much time but that's

26:10

the picture all fantastic thank you so much for sharing all of this this

26:15

data with us Professor Arena we really appreciate it just quickly two

26:21

things you know because I think we missed the very quick introduction we were waiting for Professor Mancini

26:27

we couldn't ask for you know a better expertise we've got four distinguished professors here online and

26:35

 format of this one is going to be this this kind is friendly so we're going in order now

26:41

now I think this this these people here you know these four professors here

26:46

are very well known in industry and for someone if you want to know more

26:52

please feel free to go on our website also you just Google them and you see you know experience and

26:58

expertise now we're going in order with Professor Mancini first then uh

27:04

Professor Piazza and then Professor Grosso at the end as I said we'll make this one friendly like in the same kind

27:11

of format if you want to anyone has a question we're very happy you know to

27:16

stop and also discuss with each other if you want to and have a you know a

27:23

constructive debate so we are easy going on this one on

27:29

this kind of delivery sorry for questions should

27:34

we wait until the end or after each speaker so for the questions we can wait

27:39

until the end so we've got all four discussions until the 605 but as I said

27:46

we are flexible and we can also just stop them if you if you don't mind

27:52

you know I'm asking the panelists here if they don't mind otherwise the best thing I think yeah important you

27:59

know to distract less and it's much better if we can wait until the end but as I'm repeating myself Ricardo we

28:06

just want to make this friendly which kind of round table now

28:13

Professor Mancini hi I'm not going to read to review your

28:19

series because it doesn't matter at all first of all

28:25

good afternoon to you and good morning to my colleagues I would like first

28:30

to thank you as for involving in this nice comparison of ideas and also

28:39

a special thanks to my friends and colleagues Professor Roberta Piazza for

28:44

making this really multi-disciplinary because probably the right approach is

28:49

for sure to have different point of view and giving different perspective of this

28:56

simple and complex problem at the same time so I read your three main

29:07

question about what power do local citizens and Regional actors have been

29:12

influencing policy and solution to this ongoing crisis I would like to point out that I come from Sicily so uh

29:21

is a region is an island a very important Island in history in the Mediterranean history and as a very uh

29:30

High similarity with the with the companion at least for a

29:36

while now companion is according to me a little bit better than Sicily but then

29:42

we are the last regions in in Italy in West in the correct Waste Management

29:47

so probably we can still learn from the mistake of the past

29:53

if you ask me what power do local cities in have I would say no one nothing at

30:00

all while there are some Regional actors

30:05

that should be defined better also in your question what they mean I mean

30:11

that in Sicily for of 40 years

30:16

till tomorrow one of the main Regional actors that

30:22

influenced policy and solution are the owners of landfills they are very

30:28

powerful Regional actors private Regional actor that has for sure

30:35

influenced the for economic interest the policy of the region this region has

30:45

had other separate collection level not anger than 15

30:52

15 point in percentage up to let's say

30:58

three years four years ago now we are much better and we'll tell you why and how but till four years ago

31:07

 level of server collection was approximately 15 percent nothing

31:13

this was mainly due to the fact that there was this huge interest in lengthy

31:21

owners just to have an idea I think that one of the main landfill in Sicily

31:29

governed by a private owner has made something like one billions of Euros in

31:36

the last 20 years billion okay just to have an order of magnitude

31:42

or what interests are on that and out this can of course influence in

31:48

some way also The Voice they still are very powerful because

31:55

50 percent more than 50 percent of the waste originated by

32:02

by people still go to landfill now more than three or there are six

32:10

six land field three very big other smaller but the three big all have

32:17

a problem with Justice about environmental pollution okay so

32:23

they have been stopped several times this caused a lot of problem in Waste

32:29

Management also in terms of sanitary health problem

32:37

this was a let's say these came at the same time

32:44

with the regional plan of Waste Management that proposed just uh

32:51

sustainable model proposing a separate collection proposing a

32:58

different treatment but in fact all these plants still was unapplied

33:04

totally unapplied and this was also because most of the system always collection was

33:13

a roadside waste collection so not separate collection

33:19

okay I'm really convinced that even the roadside my colleagues probably will

33:24

say not but I think that even the roadside collection can be a very sustainable

33:31

collection if citizens do their job because it's the more economic and

33:37

sustainable system to collect with the huge truck all the garbage and minimize

33:45

all the environmental problems of Transportation minimize the cost because they need much less person workers on

33:54

that but you must have people that respect the different large bin where to

34:03

put the different garbage the plastic glass and so on

34:10

if of course population do not do their job so if you do they are not able to

34:19

think to separate their stuff at home and do they

34:25

put in the right being the right fraction okay this system is available

34:33

and you are forced to use the small bin for separate collection but this is

34:40

really not sustainable or less sustainable approach in collection

34:47

a so we start from this what happens a few

34:53

years ago why system changed dramatically is not too good at all at

34:59

the moment but it changed from 15 to let's say something close to 50 percent

35:06

and this was due to the regional Authority that finally put some fines on

35:14

the measure of the Cities especially the small cities with goal of achieving 65

35:22

percent of separate collection okay this was a dramatic change tremendous change in the way uh

35:30

 citizen were forced to separate their garbage Edom and put the

35:39

right fraction in the right being and this dramatically increase the quality

35:45

of separate collection but it was made just by putting fines there was no plan

35:50

no information no social awareness nothing that worked

36:00

then the fines to the mayors the fine to the mayor's was immediately at the

36:05

beginning the Mayors were really upset with these fines but then they realized

36:10

that he was convinced from a policy point of view because they started to

36:15

have a sort of competition with other towns okay I'm doing 50 oh no I'm doing it 55 percent no I'm doing a 58 and then

36:23

they go to the newspaper with 60 60 62 6 someone got 90 percent which is a

36:30

absolutely impossible okay you are collecting garbage but someone was

36:36

putting on a newspaper we got 90 percent okay so this competition was useful okay

36:43

the quality was not so perfect but it started and people started to make

36:50

separate collection this was a tremendous impact on the waste management in season

36:56

just with fines there are still many problems because

37:03

there are part of population that refuse to make a separate condition and you

37:08

must aware be aware about this because at least in Sicily I'm really my art is

37:13

really crying about that because this kind of people leave the garbage on the street on the road five minutes okay

37:21

and this is a problem because we

37:27

have the territory that is dramatically impacted by these people living a lot of

37:32

ways on the street this create economic problem because you must collect these ways from the street on the floor and of

37:40

course it costs but it creates a tremendous impact in terms of on your

37:46

feeling and on tourist feeling Sicily is the best word in the world where to make

37:52

tourism I strongly believe this okay you can find everything in this in this

37:57

island everything the history is here the food is here Baroque is here

38:02

architecture is here I'm convinced that if you want to visit one place please come to visit City okay

38:09

but when you will come and you will drive from the airport you will say well what's happened to this paradise

38:16

because we'll find lines or waste because of these people that refuse to

38:22

make separate collection because of cultural problem and some and so on and so they are making our region

38:30

as dirty as it never has been okay it's really dirty like at the moment I'm

38:36

really sorry about that and now there are other interests now and that

38:43

this is another lecture that another relation that we can get that we were really in delay in the waste

38:51

management we had a chance to let's say make a sort of jump to cover this delay

38:58

at least try to cover this delay with the new plant but some other interests

39:03

in this case our national interests came into play about the organic

39:10

fraction we already knew from technical point of view that the most current process to

39:18

deal with those organic fraction is anaerobic digestion but the producer of

39:24

composting plant that were interested in selling compost implants and they are they were not

39:31

selling anymore in the Northern Italy came to Sicily to sell these old

39:37

technology and sustainable technology because it produced CO2 is required very

39:42

high quality energy to do nothing to just make evaporate the water and

39:48

instead of jumping so moving already immediately to an anaerobic digestion

39:53

plant directly they started to realize many composting plant in

40:00

Sicily with an over capacity that is not needed okay so this is another mistake that

40:08

politicians made and these were because they were really influenced and they were supported by silly

40:16

stupid persons that promote zero waste

40:22

and promoting this zero waste They promoted only composting plant

40:28

and this was another really terrible approach given by my region so I want

40:38

you to say that this situation is still present also in Italy everybody knows

40:43

that composting is a mistake is an absolute disaster for global warming

40:50

production global warming potential and so on but still now there is a

40:56

strong interest from certain people from deal

41:03

with activity people in favour of composting

41:09

that is a it is a absolutely negative

41:15

oh no thank you thank you it's very important to you your comment so

41:21

moving to the conclusion of this small speech if you ask me which level of governance cooperation are most

41:28

likely to successfully address this situation in the long term it's really an art question

41:33

I think you must put the money on creating a true environmental awareness

41:40

of the population so you must put money on that

41:46

and start to diffuse a love of a

41:52

true love for the environment because many people talk about environment

41:57

but then then they when they go back home I work for rotary I go to Lions

42:04

golf Prince and they all clubs but I'm sure that when they go back home

42:10

they do not make the right separate collection okay so you must really put

42:15

money on awareness for severe awareness then other two at

42:22

least two steps the involvement of population should be also true responsibility of the population you

42:29

must track if possible way they make separate correction there are many ways to do that even easy way to do

42:37

that especially with the banks you can track each bag so each person make samples stochastic samples to let's

42:46

say tell the population if you don't make the right separation I will you will get a fine from me and this could

42:53

be from one side provide a cultural improvement from one side let's say

43:01

[Music] advise them that they are doing the

43:06

wrong thing if they are doing the wrong thing on the on the other side on the authority Regional authorities side I

43:14

would say that first of all you need the skills you need to really a person

43:19

that are know what they are talking about and this usually is not as a

43:25

processor Arena has already told you it is not the case because they go through

43:31

let's say political Network so expert

43:37

is the more defined in terms of

43:43

close to that political parties or something like that and another very important

43:51

issues for me and I close is the responsibilities of Public Authority if

43:57

the technical the technicians of the Public Authority uh

44:05

provide solution a planning solution that are not real not sustainable

44:12

there is no consequence at all so there is no responsibilities for the Authority for the authorities in making

44:20

bad decision bad planning a bad solution and this should be done so they should

44:27

respond to what they are doing for our population

44:32

I think too close thanks Professor Mancini awesome thank you very much now

44:39

I'm passing the discussion to Roberta

44:44

please remember to take over okay may I share my presentation is a

44:50

very short one let me

44:56

do it let me see

45:03

it's okay can you see yeah okay so after my colleagues

45:11

expert in this topic before me it's quite difficult for me to continue the

45:17

the discussion but what I can do is to focus more on

45:24

on challenges and opportunities for Community participation it is my topic

45:31

so my speech will be centred around the empowering local actors and

45:37

implementing a community approach for long-term

45:44

success so the

45:52

 waste crisis not only in Campania but in South Italy and in Italy

46:00

as we already listen is a complex issue and it's in it's a rooted in the history

46:07

of government mismanagement corruption and also organized crime involvement and

46:15

these factors have significantly inverted the engagement and

46:21

participation of communities in Waste Management initiatives and so let us

46:27

explore the specific difficulties facing promoting Community participation

46:35

so first and foremost there is a lack of

46:41

trust and confidence in governing bodies presented this is a very big

46:49

obstacle years of mismanagement and Corruption

46:54

have eroded the trust of citizens leaving them as a sceptical or other

47:01

government initiatives their ability to address waste the crisis

47:07

effectively rebuilding these trust is a challenging process that requires a

47:14

transparency accountability and a consistent action from governing actors

47:20

foreign furthermore the presence of organized

47:25

crime networks has another layer of a complexity in companion but not only in company

47:33

a criminal organization have infiltrated waste management sector perpetuating

47:39

illegal activities such as was smuggling and legal land celebration

47:46

and this poses a direct truth to those willing to engage in West management

47:52

initiatives as they may face intimidation violence or financial repercussions

47:58

overcoming the influence of organized crime in creating a safe environment for

48:04

Community participation is a formative a formidable task

48:11

socio-economic factors also contributed difficulties in promoting

48:17

Community participation

48:26

maybe all South are very poor regions in Italy and the population of

48:34

these regions face numerous economic challenges so many individuals

48:42

and communities struggle with basic needs making it difficult for them to

48:47

prioritize or actively engage in Waste Management efforts addressing these

48:53

social economic disparities and providing support and incentives to communities can help overcome these

49:00

barriers

49:05

additionally they might be a lack of awareness and knowledge regarding waste

49:12

management practices among communities as my colleagues before

49:17

discuss limited access to information and educational resources and first the

49:23

ability of citizens to understand importance of Waste Management in their

49:29

role in addressing the crisis investing in robust educational campaigns and

49:35

Outreach programs can help bridge this knowledge Gap and Empower communities to actively participate

49:42

raising awareness and providing education was management is crucial by integrating environmental educational

49:49

education initiatives in the school curriculum community outreach programs we can foster understanding of

49:56

waste management issues and importance of individual actions through Partnerships between schools a

50:03

local organization and government governmental agencies we can create

50:08

we can try to create a culture of environmental responsibility

50:16

a long language and the cultural barriers may also impede Community

50:22

participation particularly in areas which the best population in companies

50:30

various cultural linguistic groups coexist each with their own unique

50:35

perspectives and needs overcoming these various required targeted communication

50:42

strategies that consider cultural and ensure equal access to information and

50:49

participation opportunities for all communities it's pivotal to promote Environmental

50:54

Education initiatives to raise awareness among citizens about waste management

50:59

issues their impact on health and on the environment and importance of individual

51:05

actions the solution is to Foster participation partnership

51:11

between schools locker organization to integrate a waste management education to into the

51:18

curriculum community outreach programs but

51:24

a community participation is a huge challenge in all the South Italy and so

51:31

to better understand the background about Community participation it's necessary to start from a well-known

51:38

assumption related to the work of Putnam on a democracy in Italy

51:43

what Robert Putnam and these colleagues in making democracy work discovered

51:49

in the investigation of Civic traditions in modern Italy was a strong link between the performance of political

51:56

institutions and the character of Civic life or the term the Civic community

52:02

they found that a clear line could be drawn between a Civic and us and

52:08

Civic regions and that public affairs are more successive

52:14

successfully ordered in the former patent conclusion was the Democracy work

52:21

better when the resists and independent and long-standing tradition of Civic

52:27

engagement and this assumption help us to explore the creation of conditions

52:32

helping democracy to flourish there is another consideration it is

52:38

linked to The Limited awareness of the calm set of learning community in Italy in some research in Italy have shown

52:44

that it's difficult to apply this idea to all sectors of a society

52:50

another some researcher thinks that it's really

52:55

difficult to fully cooperate to regenerate the territory considering

53:00

some failings in education on the local population but also administrators that

53:05

are not always up to the complexity of their job so the main problem is to how to develop

53:15

citizen involvement to allow dialogue between local authorities and citizens

53:22

and in other terms how to improve Social

53:28

Capital the networks normal reciprocity and trust that are fostered among the

53:34

members of Community Association by virtue of their experience of social interaction and cooperation if social

53:41

capital is a positive impact on governance as Putnam Argus we need to

53:47

find a way to improve community members action and participation and cooperation for the purpose of bettering social

53:53

lives so despite this challenging promoting communication remains a session

54:00

essential for sustainable Waste Management in company

54:06

and to Foster to Foster CV citizen

54:14

participation is important for example to establish platform for citizen

54:19

engagement such as a public consultation participatory this is a making processes

54:25

and community-based organization and other measures to be taken are

54:31

encouraging citizens involvement in Waste Management planning and monitoring

54:36

processes to ensure transparency accountability and the responsiveness

54:41

to promote waste of reduction Recycling and sustainable practices is crucial to

54:48

support for the creation of citizen-led initiatives and community-based projects

54:54

and just to conclude the community participation with Management in Campania as well as in the South Italy

55:02

phase is important challenges rebuilding trust addressing organized car

55:07

involvement addressing socio-economic disparities improving awareness and education and overcoming Language and

55:14

Cultural barriers are all crucial steps in promoting Community engagement by

55:20

acknowledging and actively addressing these difficulties we can create an environment that encourages and empowers

55:27

communities to actively participate in finding Sustainable Solutions to the

55:32

waste crisis thank you so another beautiful corner you know of

55:41

looking at the problem from the community participation now and let's move on to Professor Rosso

55:49

Professor Mario over to you hi everybody so thank you again also

55:56

from my side for your in this invitation it is probably most last minute

56:02

invitation I I ever got finally I could make it yeah I was afraid of

56:09

this this early morning so very difficult of course to add the

56:15

additional points to what my colleagues have already introduced maybe of

56:21

course my perspective is more from the technical point of view and not really from the social point of view so I

56:27

maybe will try to give you some examples of what I I've seen in my

56:33

my experience on this type of problems for example let me just very briefly discuss what

56:41

happened in Lombardi region because you know we talk about Lombardi region as one of the most advanced in Italy and

56:48

also at the European level but also in Normandy we had emergency in the early

56:53

90s and how was the emergency solved I mainly just show you just one one's

57:01

alive you can see my screen

57:08

this is how crisis was addressed and basically solved in

57:13

Lombardy region this is the evolution of the management of the residual waste in Lombardy region you

57:20

see that in 1995 most of it was going to landfill so 80 was going to landfill and

57:26

the crisis started because the landfill were filling up no more available

57:32

spaces for new landfills because lower body region is very densely

57:37

populated and so there was Crisis so waste all around in the in the streets

57:43

especially in Milan and as far as I know because I was really at the very beginning actually I was still a student

57:49

at that time but the studies have understood that this was mainly taken at the regional level so by the regional

57:55

government so the regional government was very strong in addressing the crisis They promoted the

58:03

construction of innovative Advanced plans for managing the residual ways

58:09

this one number of new waste to energy plants keep the with the best available techniques at that time which are still

58:16

very well performing right now and so it was made a little bit easier to to get

58:22

the authorization to get the permitting for the plants to be constructed so a number of new plants were constructed

58:28

you see that there was also an intermediate period so

58:35

here is the pre-treatment so they built a number of mechanical biological

58:40

treatment plants but just for the purpose of managing the transient in fact as the time went on you see

58:49

that the grey bar was decreasing and in the meantime the new ways to

58:55

energy plants in Milan in their Gamo in Russia and so on started operating but

59:00

also what you see not only the landfill was already closed to zero very small amount in 2017 but

59:09

also the total generation of residual waste was more was more than halved and

59:15

this is because of the source of Separation that has been increased very much so you always need to tackle the

59:21

issues from different point of view on the one hand to improve and promote the source separation in this is also the

59:28

role in the task of citizens to do it to do it well and on the other side to

59:33

address the management of the residual waste possibly with the advanced energy recovery Technologies also because these

59:42

plants are not managing only the residual waste but all the residues are coming from

59:48

source of Separation because in the source separation you need to sort the waste to remove the impurities and this

59:54

accounts for about 20 percent and a half of the total source separated way so

1:00:00

this is how Lombardi region has dealt with the with the emergency so

1:00:05

other examples that I I can show you I can very briefly discuss I was

1:00:12

involved also in in the management of waste in in the Liguria region so here we tend to talk

1:00:19

about to attempt to oversimplify by saying that the north of Italy is good and the south of Italy is bad this is

1:00:26

not really the true story because we have some Excellence force in the south of Italy in some provinces in the south

1:00:32

of Italy we have very good performance and some bad performance in north of Italy I don't know if you know

1:00:38

where Liguria region a Northwest close to the to the Sea next to the Sea south of Piedmont and Lombardi region

1:00:46

and I was dealing with the with the regional Waste Management plan 20 years

1:00:53

ago there was a decision so we were asked to find a site for

1:00:59

for building a new ways to energy plant to deal with the residual waste we did all our surveys we went on site and

1:01:07

so on we found very good site which was very Centric and with many other advantages so far there is no energy

1:01:15

recovery from waste in this province after 20 years because all the politicians they were against especially local level

1:01:23

Municipal level provincial level and so nothing has improved since that

1:01:29

time another example I don't know if you have been aware of this this is also I

1:01:36

think very interesting if the Parma Province Parma is a very famous city in

1:01:42

the middle Romania region very famous for ham for Parmigiano cheese so I think you know this city very well

1:01:48

and in the Parma City there was the construction of the new waste to energy

1:01:54

plant what was proceeding was going on I was at a quite Advanced stage of

1:02:00

construction but then there were the elections and one of the candidates who

1:02:05

was against current candidate said that okay if you vote for me I will

1:02:11

stop the construction of the plant there will be no ways to energy plant I will stop everything and so all most of the

1:02:18

people voted for him then when he was elected he decided to tackle the issue

1:02:24

but the company that was building the plan they just told him okay you want us

1:02:30

to close to stop the construction of the plan here is the bill here is how much you have to pay for what you have

1:02:36

been doing so far and they saw the bill and said Okay so let's go with the planet with the construction of the plan

1:02:42

because it was going to be absolutely too expensive to deal with this so

1:02:48

now the plant is up and running is running at a very high performance

1:02:53

in terms of environmental control in terms of energy it is providing heat to the to the to part of the city so it

1:03:01

is very well integrated but at the very end this politician he won the election because he said I will my first top

1:03:08

priority is I will stop the plan okay he won the election because of this but then the plant is up and run

1:03:15

other examples I could give other

1:03:20

examples very similar to this one maybe also Giuseppe is aware of sorry

1:03:28

if I go back to Sicily but it probably zap is aware of the very first Regional plan of Cecil I think again

1:03:36

about 20 years ago where the plan was considering the construction of four big

1:03:43

ways to energy plants in Sicily but it turned out if I'm press correcting if I'm wrong with that but it turned out as

1:03:50

far as I remember that size of these four plants so the treatment capacity of this power plant was very

1:03:57

close to the total waste municipal waste generation in Sicily so there was not really

1:04:03

a push for soul separation this is what I remember I must I must correct

1:04:08

you this was the information that let's say it was diffused but going to the

1:04:14

real capacity recalculation it was for 65 percent of the of the

1:04:22

total capacity of the not for 100 percent 16 okay it was already

1:04:31

a huge capacity but not 100 percent but the problem is that because of this

1:04:37

it was very easy for the opponents to say okay this is against the target of

1:04:43

soil separation so it was very easy to find a way to be against this plan

1:04:48

and from my point of view this was a mistake from them from them planning point of view so to

1:04:56

come to the conclusion again I'm not really able to talk to you about multi-level governance because this

1:05:02

is not my field but I think that we have on the one hand this this double

1:05:10

role of the citizens decision must be involved in the waste management because they are the first actors of Waste

1:05:17

Management but we see this situation where many citizens are very much

1:05:22

involved so they do Source operation very well sometimes they exaggerate I mean I know of some people that

1:05:30

carefully wash each packaging material before putting into the in the soil

1:05:35

separation bin which is of course a nonsense so it is not required to do this but on the other hand they are

1:05:42

against waste treatment plants so let's forget the waste to energy because of

1:05:48

course everybody must be against wasteful energy otherwise you are on the on the exact side of the story but as I

1:05:55

was also said before people are against anaerobic digestion plants so anaerobic

1:06:00

digestion plants are something that people are against they don't want to have it because they think that I don't

1:06:07

know what they think in their mind of course then internet social networks are fuelling this kind of

1:06:13

opposition but again when against the wasted treatment plants so of course

1:06:18

when you are in a when you go back to the companion to the current situation of the company region the management of

1:06:26

the residual waste is fine because we have the Achara waste to energy plant that is operating very well I've been

1:06:32

there a couple of months ago it is really an outstanding plans from all different points of view but then for

1:06:39

many other waste streams there is a lack of capacity of the plant for the food waste for plastic sorting and so

1:06:47

on so we have a lot of shipping of waste by trucks to other regions and the other

1:06:52

big points which I again I think is peculiar of Italy is that the politicians are really backing the

1:06:59

public opposition so the politician they understand that if they say okay I am also against this plant they will get a

1:07:08

lot of votes and so I think we end up into a vicious circle which is very

1:07:13

difficult to break down especially I think that that's all from my

1:07:20

point of view I hope I was able to give some contribution Professor Grosso thank you thanks a lot

1:07:26

from all of these valuable points

1:07:31

Now quickly first of all you mentioned the regions Leona Lombardy

1:07:37

versus Sicily Etc I can guarantee if you look from an Albanian point of view all

1:07:44

Italian regions are the best and they are much better than so it depends how you feel be here you

1:07:51

know meta okay now let's just take two questions at the

1:07:57

time let's move on I've got I failed already on my job

1:08:02

and I'm lucky with my boss is not here I've got next to me the prominent the next

1:08:09

talk to Irini Dr Martin and Professor Bruno Marsetelli now open to the floor

1:08:16

then we've got some people online which I can't read I see that there is a question there Ricardo just I'm taking

1:08:23

that shortly Bruno you've got a question thank you thank you Bruno Mars Italy from Mario

1:08:30

MIT here and thank you very much to all of all four of you for giving your time

1:08:37

I have a few comments if I can in relation to the presentations and the first one is that there was absolutely

1:08:44

no intention of using the companion example because of media

1:08:49

coverage it was mainly because and the idea was mine of the cross-cutting

1:08:56

of authorities and policies or maybe lack of policies that brought out what

1:09:02

we were looking for in this multi-level and possibly in the case of Campagna

1:09:08

multi-level chaos rather than rather than policies and one of

1:09:15

the things that I'm hearing from all four of you is that there has been a

1:09:20

failure of policy to some extent and there has been a failure also of the national government but I have not heard

1:09:28

anything in terms of the involvement of the European Union which I understand is not their jurisdiction but they were

1:09:35

involved in punitive a case in relation to Naples and to the waste

1:09:42

management so I'd like maybe some comment from you in relation to that the other aspect that comes out

1:09:50

clearly from Roberta's comments and I think also Professor Mancini was that

1:09:57

the population actually don't have any say that in reality

1:10:03

and here we get to what we were looking for there a missing voice

1:10:08

is there a lack of democracy and clearly you have underscored that there

1:10:14

is no voice at the lower level of ordinary society and so not only do we

1:10:20

not get efficiency but we don't we also don't get democracy in relation to waste

1:10:26

management in the specific case of companion

1:10:31

just one simple point in relation to the intervention of Professor Grosso I was

1:10:38

living in Milan until 1997 and I remember the waste management and maybe

1:10:43

a Mis misjudging but I remember that a lot of the rubbish went to Bali on the

1:10:48

train if I'm wrong please tell me but it was clearly a crisis in Milan in

1:10:54

relation to landfill that the city councils were refusing to make

1:11:00

themselves available for opening up more locations and this of course was a

1:11:06

newspaper headline and maybe I haven't incorrect but you can come back on that and just closing you probably I'm sure

1:11:14

that not all of you have had the opportunity to come to Australia in relation to understanding how waste

1:11:21

management is structured diversification of waste is well

1:11:29

organized and remember Australia despite the fact that it's a very large country is very urbanized so 80 of the people

1:11:37

live in four cities five cities so while we don't live on top of each other as is

1:11:43

the case in much of Europe it's becoming more and more dense and therefore apartments are becoming normal and the

1:11:51

single house is becoming is declining the diversification has worked except

1:11:58

and the last part of the story is what is scandalous so whatever you're doing in Italy keep an eye on the process to

1:12:05

the very end diversification in Australia in fact does not achieve what

1:12:10

it's meant to do so for example all of the complex recycling material in actual

1:12:16

fact get stored in the warehouse up until two years ago was exported to

1:12:21

China Malaysia and Indonesia almost 100 percent so what you have in Australia is

1:12:27

a lack of investment in recycling and no one wants to or seems to have the idea

1:12:34

of wanting to invest in recycling so even though you may have this impression that Australia is very well structured

1:12:40

and organized in reality and there is a Missing Link in relation to what you do

1:12:45

after you have everybody doing the right thing but at the end of the line it's

1:12:50

the wrong thing and a lot of it also goes into landfill including plastic and so on and so forth so I just wanted

1:12:57

to throw in Australian example of where it could possibly

1:13:03

look different than what you hear about well stop there Professor Mancini

1:13:11

is just a just a funny comment because I was almost a one year in Perth in

1:13:18

two to 2020 so at the beginning of

1:13:23

this century and there was a story a funny story that I can tell you about

1:13:28

 organization of waste collection in Australia I was living with colleagues in in a room close to the uh

1:13:38

water research water Research Center and

1:13:44

she was used to wake up a little bit late with respect to me I went to work

1:13:50

at about seven o'clock she was still staying in the bed at up to eight and at

1:13:57

7 30 there was the collection of the waste collection garbage work selection and they used to make some noise about

1:14:04

that she was coming was witness land and she called The Authority

1:14:11

and asked to change the treat collection and she made in one day one

1:14:17

day okay it was 23 years ago no and I always tell this to my students

1:14:25

my friends as a lecture as a lesson that you must always ask

1:14:31

what you need then you can obtain or not but you always ask because this is an example that sometimes you can obtain so

1:14:37

I was just to comment in a funny way that your system is fantastic

1:14:43

but it was really astonishing I was really amazed about what you say about the lack of the of the last mile or The

1:14:52

Last Mile it was which is unbelievable I can understand why because you have money to pay for that and you solve the

1:14:58

problem in that way I think it's not the most sustainable way

1:15:04

thank you Professor Arena

1:15:10

to answer to request about the

1:15:15

European Union involvement in that period after the evidence of the

1:15:22

beginning of West emergency in Campania and Europe Union

1:15:28

required to the government of Campania to receive

1:15:35

the municipal Service Waste and Industrial merchants of the waste

1:15:41

management plans and

1:15:46

to be examined by Europe Union and accepted by European Union this was the

1:15:54

 first level of involvement Unfortunately they received our plans

1:16:03

and they accepted booths in particular I save a letter

1:16:11

from a European Union that approved the southwestern Municipal service

1:16:16

management plan that was based on a new LCA approach and

1:16:23

suggested that this should be the best way to propose a risk management plan in

1:16:31

Europe Unfortunately they had no involvement in the adoption the cover of the plan

1:16:39

so that for several years the company Regional has been in the violation

1:16:46

infraction procedure because the plan was a sent to a European Union that was

1:16:55

realized only for the material recovery facility as a result they said before

1:17:01

there was this lack of The Last Mile we made the material recovery facility but

1:17:10

we wait for her seven years to make it a visual Energy

1:17:16

System and still now are waiting for the

1:17:22

anaerobic adjusting so that's the situation even though we

1:17:28

have in companion probably the best ways to energy unit in Europe or in the world

1:17:35

in terms of electric efficiency emission a level of emission and so on it is a

1:17:42

probably the best unit for a Therma treatment in the world but this has been

1:17:49

not sufficient to increase the

1:17:55

the trust of Citizen has a Robert to say

1:18:00

the lack of trust and confidence is important in this region and is one of

1:18:06

the main problem even because it has been not solved so far

1:18:13

coming back to the observation of Roberta I agree with the point one lack of trust

1:18:21

and confidence and lack of awareness and knowledge and the problem of information access

1:18:27

I don't agree about organized clean crime involvement because

1:18:33

this has been for too many years and not a problem of organized crime involvement

1:18:40

but the problem of incapacity overall policy makers

1:18:46

I add the experience to be in the area of Caserta as a minister of Waste

1:18:55

Management southwest management for 10 months in the in the peak or West

1:19:02

emergency without I was and still have not

1:19:10

belonging to any kind of policy party they asked me to give a support I

1:19:18

gave it for 10 months solved some problems but my opinion

1:19:26

was and still is that the problem was the absolute

1:19:31

absence of competence the absolute absence of information the

1:19:39

policy makers and in citizen last new last information about the

1:19:45

chart related to that we talked a lot about restore energy and the Western yellow kit is a

1:19:53

different thing reduce reuse Ricardo I believe that you you're

1:20:00

right but please take into account that reuse and

1:20:06

the field and reduce cannot solve the problem can affect four percent five

1:20:14

percent of the problem and another big problem in Italy and Europe

1:20:21

is that too much has been made to improve to promote a sacred collection

1:20:27

about nothing to improve recycling we

1:20:32

still have a cycling system process Technologies

1:20:37

very old not adequate to the new Goods

1:20:43

so it is it should be I participated in the last three years in a very important

1:20:49

I believe Horizon 2020 project about recovery

1:20:56

treatment of plastic from waste to electric electronic equipment and end

1:21:04

over life for vehicles project is wasn't is focused on

1:21:10

the new system New Recycling system for this kind of plastic

1:21:16

unbelievable interesting the only advancement is in Germany not in France

1:21:23

not in Belgium not in Italy not in Spain till now this plastic

1:21:30

is sent no more in China but in the middle of Africa

1:21:36

that's absolutely sad we should

1:21:41

invest in research and technology for recycling and just after we can say

1:21:48

there is an alternative I believe a plasticity in the

1:21:53

physical recycling by the solution and precipitation I discussed about this we're from Mario a few days ago it is

1:22:00

unbelievable efficient and the same for new form of chemical

1:22:05

recycling but they are at the technology Readiness level six five six seven

1:22:13

still far away from a commercial stage so we need to improve

1:22:21

 research in this field and also in the case of Western Energy more

1:22:27

must be done must be do we have to do more about carbon captures acquisition

1:22:34

unit and the possibility to consider also the solution always to fuel with

1:22:40

two chemicals in some cases but also in this case the TRL is not sufficient so

1:22:48

if for we the problem has been to speak

1:22:53

and to spend money for 20 25 years in separate collection what is the

1:22:59

complicated and separate collection just some tracks and some different kind

1:23:05

of being there is no science no technology it's a stupid system

1:23:11

it must be done but it is not the solution

1:23:17

it's just the first step of a very long tale

1:23:22

no more Professor Grosso so that's something yeah very

1:23:29

quickly I also would like to address question by Ricardo which of course I totally agree with the

1:23:36

idea that we need to completely change the way we manufacture our products in Italy we have a lot of efforts

1:23:44

being done by for example for plastic because okay the big issue is plastic so let's be very clear because for the

1:23:51

other materials the recycling is much more easier for glass for Metals but the big issue is plastic

1:23:57

that's how did the plastic recovery in Italy has been very active also in order to comply with the

1:24:03

new very challenging targets for plastic recycling so that the European Union they are really trying to do everything

1:24:10

to increase sorting and the recycling of plastics looking for

1:24:16

additional percentages from all possible streams but as far as the products that are

1:24:22

entering into the market are those that we have that we see now very complex multi-layer and so on this is going to

1:24:29

be very difficult and for example in Italy we have introduced a few years ago the within the EPR system the

1:24:36

differentiation of fee that of

1:24:42

the environmental fee that the producer have to pay and so if if you put into the market a plastic packaging which is

1:24:48

not sortable or not recyclable you pay an incredible amount of money more than 600 euros per ton of environmental

1:24:56

fee of EPR fee and this has not encouraged very much

1:25:01

change of course there is a there has been an encouragement but as far as plastic is so light even if

1:25:09

you charge a very high speed in terms of Euros cartoon it will still be very low

1:25:15

yesterday we were because as part of the conference that Umberto mentioned yesterday morning we were at the plant

1:25:21

the plastic sorting plant in north of Italy and it is a nightmare when you see that

1:25:28

plants because of course there are some automatic machines that do most of the work of separating the polymers but then

1:25:34

still many people doing this work which I think is the worst type of job that

1:25:39

exists in the in the world they are under this conveyor belt and they are

1:25:45

very quick with this huge amount of you cannot stop it and they have to correct the mistakes of the

1:25:51

machine so there are some now some ideas to go for the artificial intelligence with some robotic system to do this but

1:25:58

if you go there and you really realize how many different types of plastic packaging are there in the market this

1:26:05

is going to be a very big issue the other point is that if you do an LCA and if you compare the

1:26:11

plastic packaging with some alternative packaging like glass which are perceived as better for the environment

1:26:18

unfortunately I would say because this is not what you expect the plastic will win because the plastic is 20 times

1:26:25

lighter than glass and so if you do the math the plastic unfortunately will win

1:26:31

because we would expect that the glass is better because you can even if you reuse the glass it is very difficult to

1:26:37

to combat with that so coming back to the role of waste to energy of course ways to enjoy I totally agree that it

1:26:43

comes after recycling so it must be well designed in order to allow for the

1:26:49

sufficient room for a sec but remember that we have a lot of residues from all the sorting and recycling operation that

1:26:54

cannot be recycled and the alternative would be the landfill so if you don't go to waste to energy you go to landfill

1:26:59

and last but not least from the residues of waste to energy plants with Advanced

1:27:06

bottom mesh recovery system you can recover a lot of metals also precious

1:27:13

and valuable Metals you can recover aluminium you can recover copper you can recover and silver gold and something that can

1:27:22

be recovered because of the thermal process that has liberated such metal so really I think we should design

1:27:30

a very well integrated system with all the different Technologies playing their role

1:27:36

thank you Ricardo you have any follow-up yeah I think well first of all thanks

1:27:43

everyone for your speeches for your very insightful speeches and

1:27:49

yeah at the beginning I was really a little bit confused about the fact that there was so much there is so it looks like there is so

1:27:56

much focus on this waste to energy plants instead of looking that as a last

1:28:03

resort and because if we think about creating this way student energy plan then we stop

1:28:09

thinking about how we can avoid to have this waste

1:28:15

get into this kind of to this kind of facility so we spend money we invest a lot of money creating these plans while

1:28:22

maybe a major focus should be at the start so you know forcing businesses to

1:28:29

produce things that are more easily very easily reusable or recyclable and

1:28:35

put in less pressure I think there is a lot of pressure on citizens and sometimes you know their role is not

1:28:40

really easy you know when you don't have the I mean I lived in Italy for many

1:28:46

years and I remember that it's not easy to do what you're told

1:28:52

when you don't have the tools to do so it looks like it's a little bit of

1:28:59

unbalanced relation between government and citizens when things

1:29:05

should be a little bit easier like I remember living in Germany they have a better system giving incentives to

1:29:10

people so that you know they know that can bring bottles plastic bottles to the supermarket

1:29:16

they can get like a refund or things like that so the system could be uh

1:29:22

could be designed in a way that things are a little bit easier for people

1:29:28

to be part of it thanks thank you Ricardo but anyway I

1:29:35

would disagree because Albanians thinks that the Italians are better than a German system I'm joking now Martin has

1:29:42

a question and I think this is the last question we're getting close to the closure yeah and it's quite interesting

1:29:49

because Ricardo's last comments actually LED quite nicely to what I was going to

1:29:55

say so we've identified that

1:30:01

there's a lack of capacity but what is really difficult is to get citizens

1:30:06

involved even though they are really important and it's difficult to get them

1:30:12

involved because they don't trust government so Roberta was outlining a bit about what

1:30:18

to do so I was wondering whether is there a level of government that

1:30:24

would be best to actually involve citizens and what

1:30:31

should they do and how should they do it

1:30:39

please I I think I've already answered to this question I think that level the

1:30:48

most efficient level is the major is the mayor or the city so locally uh

1:30:55

because especially for the small town there is a let's say a more direct

1:31:00

contact of the citizen with the mayor and then you can start over there and obtain really fast results

1:31:08

because in that small condition of people

1:31:13

it prevails the positive models the positive behaviour and then these

1:31:20

positive model can be expanded also to the middle and large cities because you

1:31:27

must start the fire okay you must start with the small fire

1:31:32

and then the fire will propagate in that so in terms of efficiency start

1:31:38

with the small cities with the mayor the small cities put the fines and or

1:31:44

make a integrate solution not just find we say carrot and the and

1:31:52

I can remember both the two of the stick and then you

1:32:00

will get probably the faster but the mayor is very important because people elect them directly they have a

1:32:07

relationship with him so it's a strong authorities for people if it is of

1:32:12

course a strong woman or a strong man thank you and can I just can I just ask

1:32:20

one absolutely last question so

1:32:26

who would actually then help or assist the mayor because

1:32:31

and maybe that's because I don't know Italy that well although Sicily is beautiful I have to say that

1:32:39

so is there any group agency or whatnot I think Roberta mentioned

1:32:46

something like the University or Community Education are there any other groups apart from the mayor that can

1:32:53

actually be involved in that just thinking to our city situation yes

1:33:02

maybe University is very involved in this activity

1:33:07

and we have some groups but Giuseppe is one of person involved in in

1:33:14

this and so the university can do something not only towards the students

1:33:20

but also community it's a long process anyway because universities too are not used to talk

1:33:28

with the community they used to talk to their students or to maybe

1:33:35

it's a lot but maybe we can do something that is now a network called

1:33:41

RS that is University for sustainability

1:33:49

and there's a network Italian universities focused focusing on this

1:33:54

topic how to support sustainable development in Italy so we are trying to

1:34:00

do something as University but it's not enough we need some more input from the

1:34:07

CV the city level that's nothing much more important to say thank you so just

1:34:14

a quick comment about my sad experience about the university

1:34:20

Roberto make a really great job but what I saw during 20 years of university

1:34:27

is a very low involvement because the university is a close environment it

1:34:34

speaks it speaks to itself okay it doesn't go outside

1:34:39

instead you must impact the communities I think University is very important but

1:34:44

use still you have to put a lot of money to go to the school every level of

1:34:50

school starting very from kids put money to Professor to to push them to

1:34:57

teach environmental sustainability in Waste Management one hour a week or I

1:35:03

don't know but put make put money to make programs to teach from the

1:35:09

really law school to the to the University of course this this is very important another experience is there

1:35:15

are small groups that let's say promote a sort of environmental friendly

1:35:21

Behaviour but this sometimes are more nasty than you than useful because they

1:35:27

promote their let's say protagonist the interest often with the really unsustainable

1:35:34

position like that zero waste position okay and this work against the

1:35:41

sustainability because you start to fight so you start to fight the energy recorded with material recovery and it

1:35:47

and then within the fight other interested interest Prevail other

1:35:53

interests really then sustain a bit that's it good point we are running out sorry out of time yes I do have a

1:36:03

very last point for Me Maybe here yesterday please if anyone can speak to

1:36:09

the smart specialization program that took place in Campania between 2017 and 2020 if that had any successful impact

1:36:17

in the region or in anything ongoing technological development or Waste

1:36:22

Management the aspect that we saw

1:36:30

we really believe that the so important is so efficient uh

1:36:39

performances over our wish to Energy System could improve the level of

1:36:45

knowledge but the problem is that the preconception are stronger than clear

1:36:53

official data it is strange about official data about our Western Energy

1:37:01

unit that I repeat is probably the best in the world has been never

1:37:08

diffused in into the citizens there has been I was in the committee to

1:37:15

check the performances of this unit and the mayor of the city of Vachera

1:37:22

where the Unity is located asking me what I can do what I can ask for

1:37:30

to the company which is operating which

1:37:36

operates plant in order to inform better the

1:37:41

the citizen I suggested an international study

1:37:47

about the different kind of emission in all the company region these studies has

1:37:56

been realized after one year of work the negative effect of the plant is less

1:38:05

than 0.0001 percent

1:38:12

is compared to I don't know the airport for a five percent

1:38:20

traffic 30 percent eating 20 percent

1:38:25

but the answer has been okay the study has been is wrong

1:38:30

so fight to preconception as a Joseph and Roberta anticipated the way

1:38:38

is important because also the idea that any kind any things can be easily

1:38:46

recycled I usually show the picture where a box for

1:38:55

candies is a shared in the different layers usually

1:39:02

we have not less than 10 or 12 layers different plastic paper foil aluminium

1:39:11

foil this is a the rule not is an exception so how do you believe that we

1:39:18

can recover five different polymer four different polymers Vapor aluminium

1:39:25

a small box with this is impossible or you have to invest a lot in New

1:39:33

Recycling technology in the in the meantime if we can the

1:39:39

alternative is landfill or restaurant because this cannot be recycled

1:39:46

it is true it should in Italy we have about

1:39:55

40 percent more 70 percent of mixed plastic waste

1:40:00

Italy spent each year stock millions of euros to send this

1:40:08

mixed plastic waste to abstract or to Germany

1:40:13

where this plastic is used to produce energy

1:40:18

but we cannot use a meter that's stupid we spend money

1:40:26

to produce the energy in Ulster and Germany and this plastic has been collected in a

1:40:34

separate way in Italy so the true problem is

1:40:40

the correct information it is true as a Josephine mentioned it

1:40:45

that University is a closed system but we have to find the solution to

1:40:53

inform correctly in citizen uh

1:40:58

students at a different level of school and to fight against preconception not

1:41:07

only for Western Energy but also anaerobic digestion in the Caserta area

1:41:13

cannot be realized now about five years because some people say that is a

1:41:21

musket incinerator

1:41:28

it is not a joke it's true they told me it is a musket incinerator

1:41:36

we cannot solve the problem if this preconceptions are not completely

1:41:43

destroyed okay

1:41:49

thank you so much Professor Mancini has a very last point

1:41:57

you are immune it is not a comment to the discussion

1:42:02

because I think the discussion was really holistic and complete is just a

1:42:09

prayer from for you if you could send us recording of these of this

1:42:15

talk because you probably didn't notice this but this was a short interrogation in front of the car judge where you had

1:42:22

to the obligation to the true so it is a really dense of information

1:42:29

because you got this poor Professor telling probably something in

1:42:35

the crude way in the real way where they probably don't shouldn't go to the

1:42:40

conference to say in in this way okay the things as they are so it was very

1:42:46

helpful also to for the student to listen to this conversation I think so

1:42:52

if you can please send us by we transfer for instance the recording we will really appreciate a fantastic comment

1:42:59

look and please we will send you the recording can you please send us any presentation if there is any whatever

1:43:07

it is now from all of us here in Melbourne in Australia and elsewhere

1:43:14

we can't thank you enough for this one grazia Millet you have a nice evening in

1:43:20

Italy and I'm sorry you have a very nice day in Italy because it's morning right

1:43:25

now and a nice weekend and a very good evening here in Melbourne thank you again thank you so much

1:43:35

thank you