I = interviewer; P2 = participant. Refer to DDM2020 dataset documentation for more information.

1	I	so erm let's get started
2 3 4 5		in the email discussion that we had you told me about this packaging design project could you just briefly remind me what the project was and what the product was
6 7 8 9 10 11 12 13	P2	yeah so er it the sustainable packaging project was at my current company which is a consumer durables company we deal with kitchen appliances and electrical er fans and other er other such er goods so this project looked at how to er eliminate the use of polystyrene expanded polystyrene with something which is more sustainable
14	I	mhm
15 16 17 18 19 20 21	P2	and er we wanted to take this project more like a pilot project to test out how the alternative material works and the alternative materials is called ((product name)) which is developed by another er startup called ((company name)) they have used flowers the waste flowers from temple and they have er cultured it with mycelium to make this alternative product so that's the
23	I	okay
23 24	I P2	okay gist of the whole project which was done
		-
24 25	P2	gist of the whole project which was done and what usually happens to the flowers from
24 25 26 27 28 29 30 31 32	P2	gist of the whole project which was done and what usually happens to the flowers from temples er where do they usually end up in the current situation er this startup is based in varanasi er in the state of uttar pradesh it's also very famous for er its pilgrim status there are many temples there and there's this river ganga which flows through it so all the temples are used to er put the garbage like the waste
24 25 26 27 28 29 30 31 32 33	P2 I P2	gist of the whole project which was done and what usually happens to the flowers from temples er where do they usually end up in the current situation er this startup is based in varanasi er in the state of uttar pradesh it's also very famous for er its pilgrim status there are many temples there and there's this river ganga which flows through it so all the temples are used to er put the garbage like the waste flowers into the river
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	P2 I P2	gist of the whole project which was done and what usually happens to the flowers from temples er where do they usually end up in the current situation er this startup is based in varanasi er in the state of uttar pradesh it's also very famous for er its pilgrim status there are many temples there and there's this river ganga which flows through it so all the temples are used to er put the garbage like the waste flowers into the river yes or even if it's a big body collects it er they think it's er sort of you know a natural and it's not no harm to put it in the open er or in the water so it doesn't really er has any use as of

42 43 44	I	and so the the startup company that that uses the the flowers did they collect them from the river even or is it before they get thrown that
45 46 47 48 49 50 51 52	P2	er I believe they have tied up with the local temple authority so every temple in up is governed by some rules which they have and I believe that's how they work that out also they have er er sort of spoken to the local authorities so they perhaps go to their collection point and get whatever er is needed for their consumption
53 54 55 56	I	okay that's really interesting and so the packaging product that you worked on was it an in house idea from your company or how where did the idea come from to do this
57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	P2	yeah sure so I was a wild card participant for er an international programme called ((name)) challenge er based in Netherlands er and that year the theme was circular economy and er I was new into the company my main primary primary goal is as industrial designer but I always because of my background in the education er in the master's which I did in design I want to I work on circular economy and sustainability I wanted to bring that er in the company as well and I saw this challenge as a perfect opportunity opportunity to do that so this was part of the impact plan which I had envisioned for the company er and this was er chosen because it was more or less er less radical if I talk about evaluating say product life cycles it's a big task
74	I	yeah
75 76 77	P2	but packaging with the secondary to the primary product I have some chance so that was my thought process when I pitched this idea in the
78 79	I	okay so it was it was your idea and then you pitched it to your company to see if
80	P2	yeah yeah
81	I	okay great and
82 83		so what was your role in in the design of this packaging
84 85 86 87 88	P2	erm I would say the role of mine like the packaging was already there my role was more to see how to integrate this new vendor and see how it how they can deliver to us the packaging which we need according to our requirements so we chose

89 90 91 92 93 94 95 96 97 98 99 100 101 102 103		er existing er we chose the fan category because fans er they usually have this thermal buffer on which the whole motor unit sits so we had studied that I had studied all products and I and I tried to understand which would be the most easiest to replace because if you have multiple parts again it's going to be like different moulds and all of that but this er this is a common throughout all fans and mostly in India people otherwise er tend to use the packaging after they buy the product they store it somewhere but in the case of fans it's er done during the initial phase when you construct a house or you are renovating it so the packaging like the workers who are working on the fans or installation they usually throw it
104	I	so you're talking about ceiling fans rather
105	р	yeah yeah the ceiling fans yeah
106 107	I	so not the freestanding ones which which the consumer might
108 109 110 111 112 113 114 115 116 117 118	P2	I I I was speaking about the ceiling fans yeah so I my role was here to find alternative material which could be produced to the quantity which we need which was in the price which we need and also er since in my case it was a nature based or an organic product you would say I had to look at its er shelf life er whether how it reacts with the moisture and er carry out the drop tests and all the er sort of ((inaudible)) testing was done like with the help of like my involvement involvement yeah so that was the
119 120 121	I	okay and so the was the idea that the packaging would be the same shape and form as the previous packaging or were there any changes to that
122 123 124 125	P2	well er we tried to keep it same because erm this was just the inside this was just the inside the outside cardboard box would have to remain the same
126	I	yeah
127 128 129 130 131 132 133 134 135 136	P2	so if we change this design maybe because say this material needs more mass to be added to sustain the same amount of ((inaudible)) we cannot change the outer packaging because that's already fixed and that if we want to change that it's a huge project which people usually resist because it's then they need to change the whole inventory the whole database and all of that and so the initial idea was to keep it as close to the extreme dimensions which we have and any

137 138 139 140		modifications like add add an additional say a strengthening element or something should be in that sort of extreme dimension which we have that was the initial idea yeah
141 142 143	I	interesting okay and then could you tell me about some of the the decisions that you had to make in this design project
144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171	P2	erm the first decision which I spoke about briefly was to er this was my er like I was pitching this project and er I needed er clearance for the initial pilot ((inaudible)) as well so the decision I made was to choose something which will have impact on a large scale er and I I I should be able to quantify it so most of the products we have third party vendors but for fans we have our own production facility the supply chain is managed in house so hence I saw that it will make sense if I do it for fans because that's where we can control manufacturers like I the people I will be speaking to will be my colleagues not a vendor which I'm dealing with right so hence the communication gets more easier as I said it's a single part it's not like multiple parts hence we chose fans category er apart from that er the decision er of quantifying it so that I can create the buy in and we have multiple aspects it shouldn't be just that it's not it's toxic free but it should also have a social aspect to it that okay is we are we are diverting the waste from the landfill but at the same time we are employing er socially er sort of challenged women in the company who are employed there so I try to er give many faces to the proposition sort of so that it's easier to erm adopt
172 173 174	I	okay and what were what are the socially disadvantaged women doing are they making the material
175 176 177 178 179 180 181 182 183 184 185 186	P2	ah so er in India there's this caste system which is in play and er over there the marginalised caste or the those who belong from the lower caste they er traditionally have been not given good work opportunities which are secure so this er they they do the job of not taking the waste flowers or something but they do a proper job in the factory when they roll the incense sticks so apart from this ((product name)) they the company also makes incense sticks out of the flowers yeah so they roll those flowers and they get all employee benefits which otherwise er they do not

187	I	yeah
188 189 190	P2	so as they employe some hundred and seventy three women as far as I know the last record so that's also a good way right
191	I	yeah
192 193 194 195 196	P2	it's also enabling socially social circularity in a way or kind of social upliftment of er a part of society it's not just er another ((inaudible)) product sort of so that was really something which I wanted to pitch er in the proposition
197 198 199 200	I	yeah and did you when you were deciding to pitch this project did you look at any other potential materials and decide on this one or was it the other way around
201 202 203 204 205 206 207 208 209 210 211	P2	yeah I did consider other propositions er one was paper pulp-based packaging so it's basically er the newspaper or any muddy er paper which cannot be recycled further they mash it up and then they pressurise it into moulds and that's how you get paper pulp packaging so that was one consideration the other consideration was to use er cardboard itself and create some kind of supporting er mechanism erm it's difficult to explain but maybe just cardboard sheets which give make up a three d sort of
212	I	уер
213		
214 215 216 217 218 219 220 221 222	P2	structure so as to support it and we did try some mock-ups so these two options were considered but the paper was capital intensive you need to have moulds er for it and in the end er the paper is wasted after it's used right like also that is the case and the second one was a cardboard one so even that er had some challenges on the technical ground it wouldn't really pass all these tests so those were the two options which we considered yeah
215 216 217 218 219 220 221	P2	mock-ups so these two options were considered but the paper was capital intensive you need to have moulds er for it and in the end er the paper is wasted after it's used right like also that is the case and the second one was a cardboard one so even that er had some challenges on the technical ground it wouldn't really pass all these tests so those were the two options which

234 235 236 237 238 239 240 241 242 243		the numbers from him that was the monthly production of this fan how much ((inaudible)) do you ((inaudible)) order so all er that kind of information I got it er from the production plant manager and I took erm er I wasn't working but I consulted or I got my work reviewed by the strategy team which was present er in our company and also with the r and d department head so I work for r and d department here so that's the those are the stakeholders I had in the company
244 245	I	and so I think it's really interesting that you were looking at the
246 247 248 249	P2	er I would like er I'm sorry to interrupt yeah I forgot one very main stakeholder so we have a sustainability department or what we call a corporate social responsibility team
250	I	yep yep
251 252 253 254 255 256 257 258 259 260	P2	so I also er they were the primary partner er for this project because I wanted these projects to be pitched through them rather than er you know a single er say someone from the design department trying to bring about this change so if I get their support that would really help so I was I was working with them to also er kind of er officially propose this erm ahead so yeah the sustainability or the csr department was also one of the stakeholders that I was working
261 262 263 264	I	okay interesting and so you were initially you had these three different material options how did you make the final decision how did you weigh these options up
265	P2	yeah
266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282		erm so in the end er the company is a company caters to the economy sort of range all the products are based are very economical they aren't really into the premium segment or the luxury segment so cost was always on the back of my mind that whatever we do it's not adding to the product as such you know it might add to the marketing but we had to keep in mind that the cost is one of the major factors so that was the first filter er after that as I mentioned the second part was it should er not be just less damaging er to the environment like if you compared it with the existing thing which was polystyrene it was toxic it's er not recyclable so either it should be non-toxic or it should be recyclable at least but er when so when I looked at ((product name)) it was non-toxic it was er

283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305		say recyclable to some extent or it was erm sort of regenerated because you're using waste already which is something which is waste and then using it whereas in the case of paper pulp that wasn't the case right because you are using some paper as an input which wasn't say waste but it could have been used somewhere else and in the case of cardboard yes again cardboard could be used for many other purposes but it wasn't a waste as such in first place so those were the filters so the first as I said cost the second was er how many sort of facets it has like whether it's just non toxic recyclable or it has any other regenerative or it's utilising any waste so that was the second one and third was of course how easily we can integrate it into the existing er production er process which we have er so for example whether it's mass manufacturable whether it's easy to transport what is the breakage in terms of transport whether we can store it and other factors like that so these were some of the factors which we considered for deciding which to go ahead with
306 307	I	and was it difficult to compare these different factors and make a decision
308 309 310 311 312 313 314 315 316 317 318 319 320	P2	ah to be honest I guess erm I could have done people or you know I could have done a more detailed comparison of all these now in retrospect I'm citing these options but when I was in the whole design process or the kind of process ((product name)) like impressed me so much on the personal front and also the sustainability department people were like wow this is really nice so I feel we were a bit biased toward towards it so that I do realise now when I look at it so we were trying to make er that option work because it was so sort of er it ticked all the requirements which we had
321	I	you just had a gut feeling when you
322	P2	you asked me that right was that what
323 324	I	yes yes yeah so it sounds like you had more of er a gut feeling that this was the best option
325 326 327 328 329 330 331	P2	yeah but it isn't like we didn't explore the other options we did explore other options up to prototype level we also spoke to some vendors but er that's what and the company er like our company er the chairman which we had he was really interested in working with startups like you know especially Indian startups who if if in

332 333 334 335 336	I	any way er we could sort of fund their projects or help them develop their product so ((product name)) in this case was again falling in that bracket as well it was a new startup it was trying to launch something new yeah
338	P2	
339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356	FZ	so we were trying to er be a part of their journey and the other two options were just any other vendor who weren't really doing it for the say the social cause or the environmental cause for them it was just you know er minting more products the paper pulp er the paper pulp based or cardboard so yeah that was the one thing and the third option which I spoke about cardboard a lot of er ((inaudible)) research would have to be done from our side also you know it had a very long er sort of er process whereas er in the ((product name)) option they were our partner so I could ask them to do a lot of things for us rather than doing a to z development over here because er as I said it was a something which I was trying to talk to people and get it done more or less it wasn't a mandate as such so we didn't have sort of costing cost budget or you know timers
330		Cliners
357	I	yeah
	I P2	
357 358 359 360 361		yeah which were connected to this project so hence it was important that it shouldn't be a lot of work for the stakeholders like the packaging team or the er production team which was there so hence
357 358 359 360 361 362 363 364	P2	yeah which were connected to this project so hence it was important that it shouldn't be a lot of work for the stakeholders like the packaging team or the er production team which was there so hence that option felt er really perfect at that time did you have time allocated yourself for this extra project did you have time allocated in your
357 358 359 360 361 362 363 364 365 366 367	P2	which were connected to this project so hence it was important that it shouldn't be a lot of work for the stakeholders like the packaging team or the er production team which was there so hence that option felt er really perfect at that time did you have time allocated yourself for this extra project did you have time allocated in your own working time for this yes I had time allocated for it I had like er two days out of my two or one and a half days of my
357 358 359 360 361 362 363 364 365 366 367 368	P2	which were connected to this project so hence it was important that it shouldn't be a lot of work for the stakeholders like the packaging team or the er production team which was there so hence that option felt er really perfect at that time did you have time allocated yourself for this extra project did you have time allocated in your own working time for this yes I had time allocated for it I had like er two days out of my two or one and a half days of my five day week

379 380 381		the decision er as a group with with your colleagues or did you make the decision yourself as to which material to go with
382 383 384 385 386 387 388 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407	P2	erm its sort of erm like if I recollect it's kind of hazy the whole process exactly what happened but I can er say that I was the primary driver or I was the primary decision maker the second partner closest to home I felt like was part of the decision-making process was the sustainability team and then came the production plant er or the packaging team so I tried to because I I understood after one point that people were seeing it as my personal agenda and hence that could act as a barrier to the whole transition hence I wanted to see that every stakeholder feels that this is their project too it's not something which I'm trying to do it for some xyz competition or a challenge which I've signed up for and that wasn't the case either that was just an excuse for me to introduce this whole er initiative in the company so I wanted to see that they take the ownership also it shouldn't be just me hence also maybe perhaps at times I had already made a decision or I had to like back of my mind I knew that okay this is the most import er feasible option I still made sure that I go and er talk to everybody see what they think about it and then er take a collective decision
408	I	yeah okay
409 410 411 412	P2	also by that stage it wasn't needed but it was important for all the stakeholders to feel accounted for so yeah that was er very clear in my mind at that er point yep
413	I	okay
414 415 416 417		and so you've talked quite a bit about the the social and the environmental impacts how does this relate to your own personal values or or ethics how does that come into your design work
418 419 420 421 422 423 424 425 426 427	P2	er well erm in my master's project er as I said I was er a year into like I was a fresh employee in this company and my background er in I I was a Smith MacArthur Fellow er for circular economy with the Ellen MacArthur Foundation my systems project was on waste so it started with waste and we moved to consumerism then we bought into climate change and we did a lot of field research we went to landfills we spoke to many organisations so that er had really changed the

428 429 430		whole direction like when I joined the design school my passion was to create you know really fancy looking cars and
431	I	yeah
432 433 434 435 436 437 438 439	P2	really nice appliances but then that shift happened during that project er or that course that it brought me face to face with the reality of what where white goods end up or where do most of the things which we used end up and that moved me really moved me a lot but er due to some er decisions er like due to some constraints I had to pick up a job
440	I	yep
441 442 443 444 445 446 447 448	P2	which is industrial design so I wanted to still play my part of course I cannot go to walk into marketing and say walk to the marketing department and say guys we need to stop making new products what would be too too much for them and for me too so I wanted to see er what in small steps or whatever in my capability can I slowly nudge them or steer them away
449	I	yeah
450 451 452 453 454 455 456 457 458	P2	you know just to start the conversation or to build up because for this company it was it had never spoke like sustainability was never an agenda or on the topic they only know about business sustainability but I don't think they looked at it the other way they have a a like social responsibility when which is about planting trees and carrying out er but those are mostly er sort of adaptive I would say
459	I	the more external
460 461		they're more external to what the actual product is
462 463 464 465 466 467 468 469 470 471 472 473 474	P2	yeah it's not like doing it because the government has mandated at them to spend say five per cent of their er whole annual income you know planting trees and then using plastics over here which are being recycled I feel yeah although I'm not a ((inaudible)) of the company he had to take that call but I wanted to create at least that er awareness or let them know that there is a better a better alternative or a different way of doing things so in the long run I would have loved to work on circular econ a circular product like their main sort of proposition er work on solar powered factories so all of that was in the long

475 476 477		run but I saw these projects as the stepping stones to get that discussion going yeah so that was my drive to do this yeah
478 479 480	I	yeah and have you noticed has there been any change within your company following this project that you initiated or is it
481	P2	yes er change in which aspect
482 483 484 485	I	well I wondered if your focus on sustainability had maybe influenced people to start thinking about that in the the normal product development that you do
486 487 488 489 490 491 492 493 494	P2	er well it didn't trickle down to the product development stage but I would say yes er it did make people er a lot more aware like I was labelled the packaging guy or the sustainability guy so that itself was kind of okay for me personally it was something okay people are taking notice of this of me but in a way also of the project right because they are linking me with the project
495	I	yep
496 497 498 499 500 501 502 503 504 505 506 507 508 509 510	P2	and as I said I carried out some ((inaudible)) capacity-building projects too like I had a circular design workshop for my colleagues we are a design team of eight to twelve people and as I realised the perils or the struggle which I encountered while the bottom up approach you know I was trying to steer it I did realise that should be top down so hence I also organised this er workshop called demystifying sustainability for the top management so like the cmd the managing director the all the business heads everybody was there for the one er day workshop was carried out by ((organisation name)) have you heard of them ((organisation name)) they are based in Delhi yeah
511	P2	yeah
512 513 514 515 516 517 518 519 520 521 522	I	so they are basically an Indian association which er work on sustainability as part of er a part of them does so I felt it would really be good to bring them on board as well to get that credibility of you know the knowledge sharing which wasn't happening so yeah that was one change and the other change yeah erm so after this what happened was er they did the er as I said earlier this project didn't materialise in the end but one stone it did kind of try to move or kind of one thing which really happened was

523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545		they made a cross-functional team called the sustaina for the sustainable packaging project so the conversation started with ((product name)) but then later the questioning about the carton whether we are using recycled er cardboard what kind of inks we are using like I of course I had in fact that in my proposal but then erm a cross functional team was formed officially earlier it was just me right and my sustainability colleague but now there was like officially on the ((inaudible)) and it was mandated by the strategic team and r and d head had allocated sort of a team to look at how to as a whole strategy you know periodically and step by step make whole er packaging which ((company name)) has sustainable so say like recycled er packaging only by two thousand and twenty two or two thousand and twenty three so they had on this team to er er think or brainstorm how do we do that so there was a guy from the production er facility so that had happened so that team is still in place but the irony of it was er I wasn't part of that team
546	I	oh no
547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565	P2	yeah so I was in the start but later my er like again a lot of things happen like you know the leadership changes then they have to be brought on board as well with why you want to do it so in that whole transition he started to question why are you working on packaging when you are a industrial design guy like you know so everybody has a different approach he wanted to see like my new new leadership at the r and d wanted to see people working their own jobs rather than being a lot cross functional and that was the demand of the time so er right now they are still trying to figure out the progress has has been really slow on the whole sustainable packaging policy which they were trying to introduce or the framework which they were trying to introduce so progress is slow but yeah that did start because of this whole conversation because of this whole project which was carried out
566 567	I	okay and can you explain a little bit about why the project didn't materialise in the end
568	P2	in the end as I said the leadership changed
569	I	yeah
570 571	P2	so that was one like the support which I had in the r and d team the head he got shifted back to

572 573 574 575 576 577 578 579 580 581 582 583 584		his department we had a new head so for him it felt like er again he questioned why are you doing this like he didn't know the backstory I did give them a download of why I'm doing it what ((name)) challenge was and all of that but he really didn't buy the idea like he went in the technic technical aspects too soon and also the product wasn't developed so that was the sort of the intangible aspects of why it didn't materialise went on on like the product itself had some issues when it came to the draining it used to drain a bit like it used to leave some residues
585	I	right
586 587 588 589 590 591	P2	when it was wrapped in the case and it had a very strong smell because er I don't know because of the er old flowers or because of mycelium so those were some buyers which er marketing when they saw the sample which we had developed they said okay is there a way to get around this
592 593 594 595 596 597 598		I said yes but it's going to cost you some money and that's when er things started like they lost interest because basically you need to coat them with gelatine gelatine is something that you find in seashells and other things so you have to make a gelatine coating on top and that at that point was still a bit
599	I	okay
600 601 602 603 604 605	P2	so yeah that was one of the reasons apart from that erm weight it was fifty per cent more like sort of heavier than thermocol thermocol is hardly anything it's just air right expanded but this is something which has weight to it so it was fifty per cent more heavier so
606	I	yeah
607 608 609 610 611	P2	that was one thing and erm apart from that that's those are the points which I believe were er but I feel in this project they were more what do you say I won't call it I don't know the term like the intangible or you know people aspect of it
612	I	yes yes
613 614 615 616 617 618	P2	so I I cannot I don't have the ((inaudible)) facility right like the testing facility had to be done by the packaging team er these weren't fully on board because their KPIs weren't aligned sort of the key performance indicators or their annual annual performance goals right

619	I	sure
620 621 622 623 624 625 626 627 628	P2	so for them it was like if this project is done I don't get the credit I I feel that was also something in the back of their mind you know the ownership ownership issues I would say they didn't felt that if they really pursued this project they are going to get at any erm sort of erm anything back er yeah so like on the what do you say the organisation structure or the company benefits and all of that so
629	I	the recognition
630	P2	are one of the yeah agenda
631	I	yeah
632 633 634 635 636 637 638 639 640 641 642 643 644 645	P2	and then as I said I was slowly phased out or you know removed from the whole er team the new team which they had formed so I lost touch and I try to stay in touch as much because they were basically now my friends because I have been working with them for six seven months but then er it was more or less because of some office er bureaucracy and changing targets and changing approach the new leadership added a different strategy he wanted to keep all of the secondary projects at the after you know in the backseat and concentrate on other parameters which is totally justifiable and that is what the business wanted back then so yeah that was showing more or less
647 648	I	okay and do you know and whether the the material is being successfully used by any other companies
649 650 651 652 653 654	P2	as I was speaking like er I didn't mention I was coordinating with the research scientist over there or the research guy there and yes he did mention at many points that many of our competition players were actually exploring the same material for them
655	I	okay
656 657 658 659 660 661 662 663 664 665	P2	but as of now I do not know or haven't seen in any er in the market anybody using it it's often a more erm apt application for other app like other industries which they have already used like for say icebox sort of things wherein you need to insulate temperature insulation and other applications but for packaging as such I haven't really seen and I don't have any updates as such if anybody's introducing it at this point right yeah but there were active interest for sure like

666 667		I have confirmed er ((inaudible)) that many other people were also trying for the same thing
668 669 670 671 672	I	okay it's interesting and so you've talked about how complex it is to try and make a product more sustainable in the structure of a company who do you think is is ultimately responsible for the sustainability of the product
673	P2	for the sustainability of the product
674	I	yeah
675 676 677 678	P2	erm I do not know if I could comment on that because I feel in my case the product was already sustainable my challenge was to introduce it and to make it compatible for the company but I yeah
679 680 681	I	in your company who do you think possibly should be responsible for whether the packaging is sustainable or not for example
682 683 684 685 686 687 688 689 690 691	P2	er many people can be responsible like I was responsible right like I voluntarily was responsible that packaging should be respons er sustainable but yeah that doesn't work out so I feel the most important person er should be the strategy team or be er managing director the head er head of the company he should have that agenda that mission like see if you look at philips their ceo is very vocal about circular economy and how they want to make it a new way of like doing business
693	I	mhm
694 695 696	P2	so I feel usually a top down approach has to be there so if it's packaging related the packaging head should be on board and should drive it
697	I	yeah
698 699 700 701	P2	otherwise I feel er there are many examples such as mine when something was started looked promising some small difficulty came and then it all went down
702	I	yeah
703 704 705	P2	until and unless you have that top er sort of backing or that support it's really challenging to do these projects
706	I	yeah yeah I can see
707 708 709	P2	because you need budgeting you need money you need a bit of risk or like you need that space to fail also because it won't go right in the first

710 711 712 713 714 715 716 717 718		time so somebody a leader who can understand that that that should be there and of course there should be some people who are internal like intrinsically motivated to do it it's not like somebody has asked them to do it like for example in this case it was me I personally felt that I should be doing it or this company should be doing it but yeah that those two are the key responsible people
719 720 721	I	and have you is there any interest from consumers of the products that you develop in sustainability
722 723 724 725 726 727 728	P2	erm I spoke to some consumers I listed consumers because this was exactly the question which was which ((inaudible)) that okay if we do say spend ten or fifteen per cent more for this packaging do you think the customer will be ready to pay and that made me go to the shops and talk to them and I said this was a economy product
729	I	yeah
730 731 732 733 734	P2	and and also to make this project viable we had to have a large quantity of er sort of order so it shouldn't be like say something which is just five hundred a year it should be in thousands to make it feasible
735	I	yes
736 737 738 739 740 741 742 743 744 745 746 747	P2	so hence we have to look at more economic er products like cheapest of the cheapest fans which we sell and when I speak to those consumers they don't really bother like for them it's not an for them it's just another fan like if the other ((inaudible)) sells ((inaudible)) for like ten or fifteen rupees less that is like maybe a quarter quarter of one dollar even that price difference is more than enough for them to choose it but if that same quarter of a dollar they had to pay to buy say something which is sustainable they might think twice
748	I	yeah
749 750 751 752 753 754 755 756	P2	and at the same time it has to be presented properly to them maybe some of the consumers might even do that like in the er economic band or what do you say in the budget band some of them might even spend that extra money but that kind of branding that kind of communication on the product side or the company side should be there

757	I	mhm
758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	P2	and I have seen at the same time as you go higher up the ladder on the consumer sort of parameter if you see people who are the premium er category or the top end sort of they are more they're more aware I would say and they also have that purchasing power as you see go green or you know vegan lifestyle and all of these are more or less lifestyle trends nowadays and some people are totally like they don't really connect to the need of it but they just want to do it because it's the new cool you know in a way because they are aware okay er going like sustainable products are something which everybody is trying to like you know discussing on their ((inaudible)) parties or wherever their social circle more more more or less or say somebody who is er kind of working with such organisations who are committed to such er agenda you know sustainable agenda so these people are usually not the budget buyers which our company catered to they are usually usually comes they come into the picture when it's some expensive products or some you know they might buy a fan which is say twice the amount of what we sell
782	I	mhm
782 783 784 785 786 787 788 789 790 791 792 793 794 795	I P2	mhm so in that and also I feel in premium products you have that margin to accommodate these costs you know the extra costs initial costs which the company will then make that shift from you know existing linear economics to circular economies so that transition cost er can be ((inaudible)) by these premium products that is margin is there you know that margin is there and they can er sort of absorb this cost but when you are making something which is lead er say the ((inaudible)) or you know or the ((product name)) you know or something which is like third floor competition five ten rupees it's really difficult to produce
783 784 785 786 787 788 789 790 791 792 793 794		so in that and also I feel in premium products you have that margin to accommodate these costs you know the extra costs initial costs which the company will then make that shift from you know existing linear economics to circular economies so that transition cost er can be ((inaudible)) by these premium products that is margin is there you know that margin is there and they can er sort of absorb this cost but when you are making something which is lead er say the ((inaudible)) or you know or the ((product name)) you know or something which is like third floor competition
783 784 785 786 787 788 789 790 791 792 793 794 795	P2	so in that and also I feel in premium products you have that margin to accommodate these costs you know the extra costs initial costs which the company will then make that shift from you know existing linear economics to circular economies so that transition cost er can be ((inaudible)) by these premium products that is margin is there you know that margin is there and they can er sort of absorb this cost but when you are making something which is lead er say the ((inaudible)) or you know or the ((product name)) you know or something which is like third floor competition five ten rupees it's really difficult to produce
783 784 785 786 787 788 789 790 791 792 793 794 795 796	P2	so in that and also I feel in premium products you have that margin to accommodate these costs you know the extra costs initial costs which the company will then make that shift from you know existing linear economics to circular economies so that transition cost er can be ((inaudible)) by these premium products that is margin is there you know that margin is there and they can er sort of absorb this cost but when you are making something which is lead er say the ((inaudible)) or you know or the ((product name)) you know or something which is like third floor competition five ten rupees it's really difficult to produce yeah

804 805	I	was there anything else that you'd like to share that's related to to this project
806 807 808	P2	erm yeah I have written some points before er so I will just go through them and see if I've missed something
809		yeah I guess I have covered most of er the things
810 811		yea most of the things I have er covered and as I said er people are really resistant to change
812	I	yeah
813 814 815 816 817 818 819	P2	if it means I need to to like there are these people who are er okay it's my perspective again but it's my personal perspective here but I feel er I have interacted with some of my colleagues who are working for ten fifteen years in the same company in this company and their job routine is very fixed you know
820	I	yeah
821 822 823 824 825 826 827 828 829 830 831 832 833	P2	they they would like to er keep it that way and if I am introducing something it is something which they don't know right er they are used to working with the same material the same processes the same guidelines for the last five ten years but if this new thing comes they need to er maybe adapt or change or upgrade sort of their knowledge base their practice base to this new level so I feel that's the resistance which is there usually in the companies when you are trying to introduce something new not just sustainable sustainability related but anything so that I have observed as one of the er points
834	I	уер
835 836 837 838 839 840 841 842 843 844 845	P2	and decision-making I feel it's distributed most of the time but it also depends on the company like my company was very like it has more or less it's ((company name)) it's a huge company but in the end it's people-driven I would say it's not so process-oriented as of now we are transitioning to it we are bringing in SOPs like the standard operating procedures but it's still in the end people-driven if the boss says yes everybody is aligned if the boss says no everybody is like okay can't help it he has said no
847	I	yes
848 849	P2	so I feel that that needs to change right some companies have already policies which say okay we

850 851 852 853 854		need to contribute to at least fifteen per cent of projects which have such outcomes you know sustainability outcomes so some kind of er agenda or that rule should be incorporated into the whole operations process you know
855	I	yeah
856 857 858 859 860	P2	it shouldn't be just something which people do er er their personal agenda or like you know it should be integrated into the whole appraisal or performance review system which we have that would be a good motivation to get things yep
861 862 863	I	yep no that's that's really useful and really interesting thank you so much for er for taking the time to talk to me about this
864	/end/	