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Technical Assistance for Assessment of Türkiye's Potential on Transition to Circular Economy

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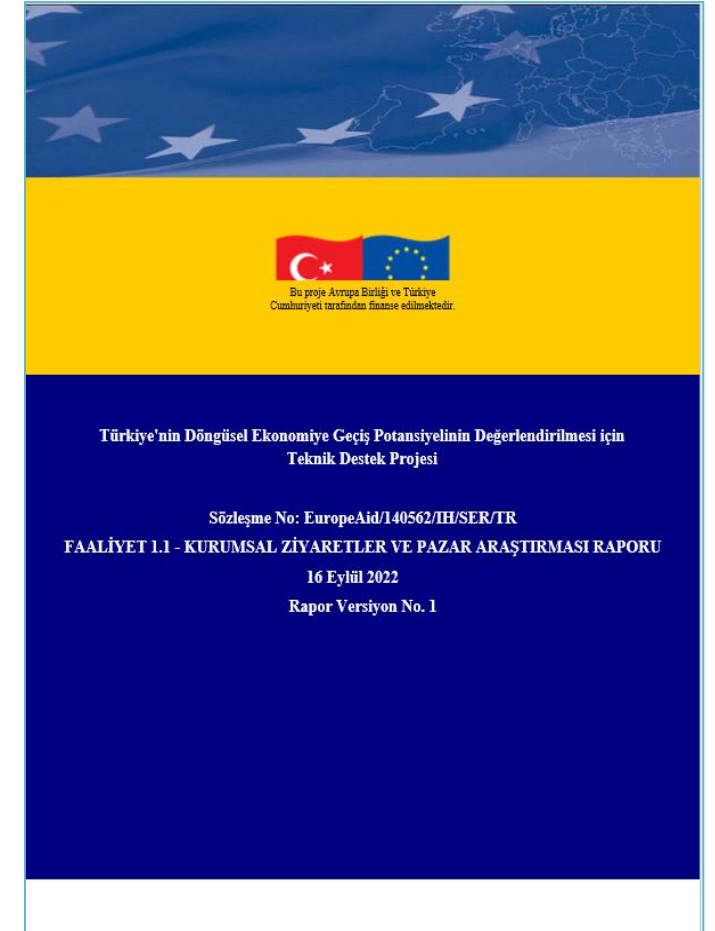
Results of Market Survey and Institutional Visits

Şeyda DAĞDEVİREN HILL
Business Council for Sustainable Development Türkiye (SKD Türkiye)

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Content

- Objective and scope
- Methodology and studies carried out
- Türkiye's circularity assessment studies
- Current situation assessment of stakeholders
 - Strategy and activities
 - Information and activities related to the EU Circular Economy Action Plan (EU CEAP)
 - Views on national policies
- Challenges and obstacles – Supporting elements
- Gaps, needs and solutions
- Benefits and opportunities
- Results



Objective and scope

Receiving stakeholder opinions and contributions to make a detailed evaluation to contribute to the benchmark studies of the EU Circular Economy Package in the context of Türkiye and other steps of the project

- Determining the current situation, contribution and needs of the stakeholders
- Receiving the opinions and suggestions of the stakeholders
- Providing the necessary data to calculate Türkiye's national and sectoral circularity
- Informing the stakeholders about the concept of circular economy and the Project
- Evaluation of cooperation opportunities




Methodology

Questionnaire and stakeholder visits

- Conducted Studies
- Generating general and specific questions (data request)
- Sending questionnaires to stakeholders
- Completion of visits
- Evaluation of results
- Following up the data request process with stakeholders





Bu proje Avrupa Birliği ve Türkiye Cumhuriyeti tarafından finanse edilmektedir.

Türkiye'nin Döngüsel Ekonomiye Geçiş Potansiyelinin Değerlendirilmesi için Teknik Destek Projesi

GENEL DEĞERLENDİRME VE PAZAR ARAŞTIRMASI ANKETİ

1. GİRİŞ

Ülkemizde ve dünyada döngüsel ekonomi çalışmalarının önem kazanmasıyla birlikte IPA II Dönemi kapsamında Avrupa Birliği (AB) fonlarıyla “Türkiye'nin Döngüsel Ekonomiye Geçiş Potansiyelinin Değerlendirilmesi için Teknik Destek Projesi” 07.02.2022 tarihinde resmi olarak başlamıştır. Söz konusu projenin sözleşme bütçesi 3.198.250,00 Avro olup, proje süresi 3 yıldır. Sözleşme makamı Avrupa Birliği ve Dış İlişkiler Genel Müdürlüğü / Avrupa Birliği Yatırımları Dairesi Başkanlığı, nihai faydalanıcı ise Çevre Yönetimi Genel Müdürlüğü / Sıfır Atık ve Atık İşleme Dairesi Başkanlığı'dır. DAI Human Dynamics, Konsorsiyum lideri olup, Sözleşmenin Yüklenicisi olarak tüm teknik destek firma tarafından uzun ve kısa dönemli uzmanlar vasıtası ile sağlanacaktır.





Projenin temel amaçları arasında:

- Türkiye genelinde daha verimli kaynak ve atık yönetimine de katkıda bulunan döngüsel ekonomiye geçişi teşvik etmek,
- AB Döngüsel Ekonomi Paketi doğrultusunda Türkiye'nin döngüsel ekonomiye geçişte kurumsal ve teknik kapasitesini güçlendirmek,
- Ülkemiz şartlarına uygun kapsamlı bir ulusal strateji ve eylem planının geliştirilmesi yer almaktadır.

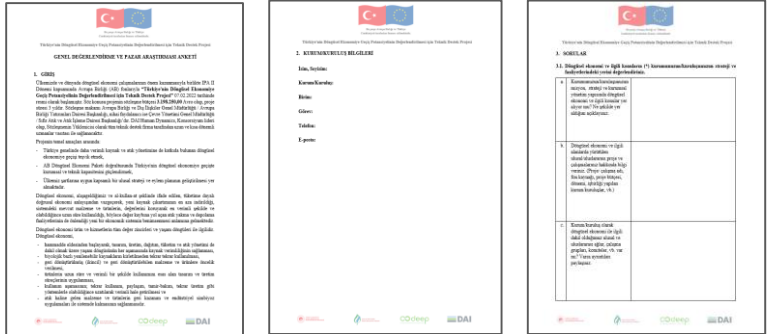
Döngüsel ekonomi, alışageldiğimiz ve al-kullan-at şeklinde ifade edilen, tüketime dayalı doğrusal ekonomi anlayışından vazgeçerek, yeni kaynak çıkartımının en aza indirildiği, sistemdeki mevcut malzeme ve ürünlerin, değerlerini koruyarak en verimli şekilde ve olabildiğince uzun süre kullanıldığı, böylece değer kaybına yol açan atık yakma ve depolama faaliyetlerinin de önlenildiği yeni bir ekonomik sistemin benimsenmesi anlamına gelmektedir.

Döngüsel ekonomi ürün ve hizmetlerin tüm değer zincirleri ve yaşam döngüleri ile ilgilidir. Döngüsel ekonomi,

- hammaddede eldesinden başlayarak, tasarım, üretim, dağıtım, tüketim ve atık yönetimi de dahil olmak üzere yaşam döngüsünün her aşamasında kaynak verimliliğinin sağlanması,
- biyolojik bazlı yenilenebilir kaynakların kirletilmeden tekrar tekrar kullanılması,
- geri dönüştürülmüş (ikincil) ve geri dönüştürülebilir malzeme ve ürünlere öncelik verilmesi,
- ürünlerin uzun süre ve verimli bir şekilde kullanımın esas alan tasarım ve üretim süreçlerinin uygulanması,
- kullanım aşamasının; tekrar kullanım, paylaşım, tamir-bakım, tekrar üretim gibi yöntemlerle olabildiğince uzatılarak verimli hale getirilmesi ve
- atık haline gelen malzeme ve ürünlerin geri kazanım ve endüstriyel simbiyoz uygulamaları ile sistemde kalmasının sağlanmasıdır.



Conducted Studies

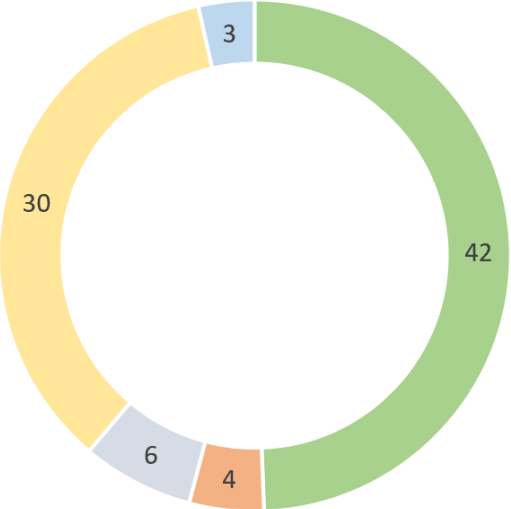


Creation of questionnaires

- The role of circular economy and related issues in the organization's strategy and activities (current and planned) (13 questions)
- Evaluations and studies of the institution/organization regarding the EU-CEAP published within the scope of the European Green Deal (2 questions)
- Evaluations of current policies and action plans regarding the circular economy in Türkiye (3 questions)
- Evaluations of the impact, needs and opportunities related to the transition to the circular economy (3 questions)
- Contributions they can provide within the scope of the project (data)
- Other issues, opinions and suggestions they want to express on the subject

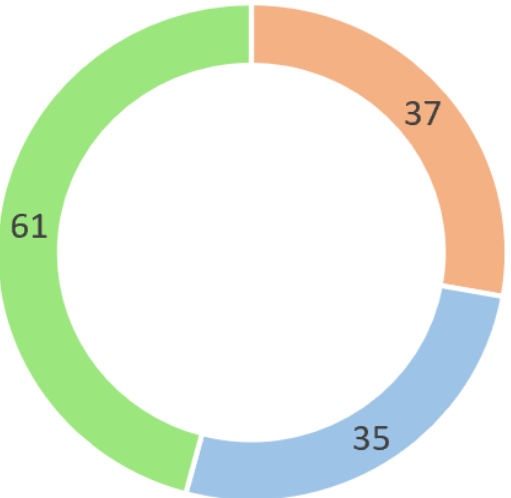
Conducted Studies

Completion of questionnaires and visits



- 85 institution/organization/unit visits (4 July – 22 August)

- Public Institutions
- International organizations
- Universities and research institutions
- Private sector representative institutions and organizations
- Other NGOs



- 133 surveys (63 visited) (1 July – 9 September)

- Public Institutions
- Other institutions and organizations
- Companies



Challenges - Obstacles

- Incomplete legal structure
- Insufficient financing and incentives
- Insufficient public consciousness and awareness
- Current perspective on linear economy and conventional waste management by all parties, including the public
- Barriers to bureaucratic processes
- Lack of cooperation
- Difficulties experienced in public-private sector-university cooperation
- The current system is not suitable for the circular economy
- Difficulties in the transformation of production and consumption systems and changing habits and the need for a long time for transformation
- Failure to adopt new business models
- Failure of the industrialist to complete the innovation process
- Failure to create an effective separate collection system
- Inability to increase recycling capacity
- The dominance of the disposable model due to constraints in certain sectors (ex: hygiene in the medical field)
- The existing waste management costs of municipalities are high and not efficient.
- The lack of motivation of municipalities in this regard

Supporting Elements

- Resource efficiency becomes necessary due to the energy bottleneck and reduction in natural resources
- EU Green Deal and EU CEAP implications
- Culturally giving priority to issues such as reuse and recycling
- With the Zero Waste Project, public awareness, and sensitivity of the new generation to studies on recycling
- The works carried out on the public side and the infrastructure created so far
- Technical Assistance for Assessment of Türkiye's Potential on Transition to Circular Economy and the interest and cooperation of all parties in the project



Gaps, needs and solutions

Policy/ Legislation

- Revision of the legislative infrastructure according to circular economy principles
- An action plan for Türkiye in which the circular economy is handled holistically
- New policy tools to promote the circular economy
- Legal regulation that will determine the basic principles and legal framework of the circular economy

Awareness / Capacity

- A clear understanding of the circular economy concept by all parties
- Detailed studies on the circular economy on an academic and sectoral basis
- Sufficient human resources trained in the circular economy
- Adequate awareness of the circular economy in society
- Policies to ensure that products and materials are produced and designed with a long life

Infrastructure/ Technology

- Use and dissemination of innovative techniques and technologies
- Adequate infrastructure for separation, collection, and recycling of waste at the source
- Adequate R&D and P&D studies for the recycling of waste are important to the economy
- Monitoring of products and resources in value chains
- Infrastructure and standards for secondary raw material use and other circular economy applications

Financing/ Investment

- Financial instruments that support the transition to a circular economy
- Accelerating green transformation in OIZs and other industrial zones
- Development of data collection and processing infrastructure for the circular economy

Governance/ Cooperation

- Effectiveness of local governments in the implementation of circular economy policies
- Effective information sharing, cooperation, and coordination between units and institutions
- Establishment of regional and local governance mechanisms for the circular economy

Results of Market Survey and Institutional Visits

Benefits and Opportunities

- Supporting sustainability and contributing to the achievement of the Sustainable Development Goals
- Achieving carbon reduction and supporting the fight against climate change
- Preventing environmental pollution, providing positive effects for the environment and human health
- Increasing resource efficiency, waste and resource management efficiency and sustainability
- Minimizing waste
- Reducing raw material costs and reducing price fluctuations
- Reducing reliance on natural resources
- Increasing economic growth
- Creation of new markets
- Creation of new economy and business models
- Reducing dependency on imports
- Increasing the competitiveness of industrialists in domestic and foreign markets
- Compliance with environmental conditions in the supply chain and trade
- Enabling companies to access national and international financial resources, incentives, loans, and grants
- Saving on waste storage areas
- Triggering innovation and R&D, developing new techniques and technologies
- Supporting sustainable product design and production processes
- Creation of new jobs and employment opportunities
- Strengthening cooperation, contribution of all stakeholders in the life cycle
- Changing consumer awareness and habits



Results

- As one of the important activities of the project, market research and institutional visits were completed efficiently and the determined targets were realized.
- An important information and base has been created for many project activities, including the circularity analysis, by taking the opinions of stakeholders from different segments.
- It has been seen that the stakeholders are partially interested in the subject and its details, and a comprehensive information and awareness-raising process is necessary, especially from the point of view of SMEs.
- All stakeholders especially focus on Türkiye's rapid adaptation to the legislation and practices within the scope of EU CEAP to avoid loss of competitiveness and avoid obstacles in exports.
- For this, it is critical to go beyond the linear economy and traditional waste/waste management understanding and to deal with all aspects of the circular economy.



Results

- In this framework, a descriptive legal regulation specific to the circular economy and a comprehensive action plan specific to our country should be prepared.
- In addition to the regulation of policy and legislation, there are many steps that need to be taken within the framework of creating awareness and capacity, infrastructure and technology, financing and investment, governance and cooperation.
- It is seen that Technical Assistance for Assessment of Turkey's Potential on Transition to Circular Economy is an important start and opportunity for all the steps to be taken.
- It is noteworthy that the stakeholders are highly interested in the project and they want to be involved and contribute to the process.





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Thank you for your attention.



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