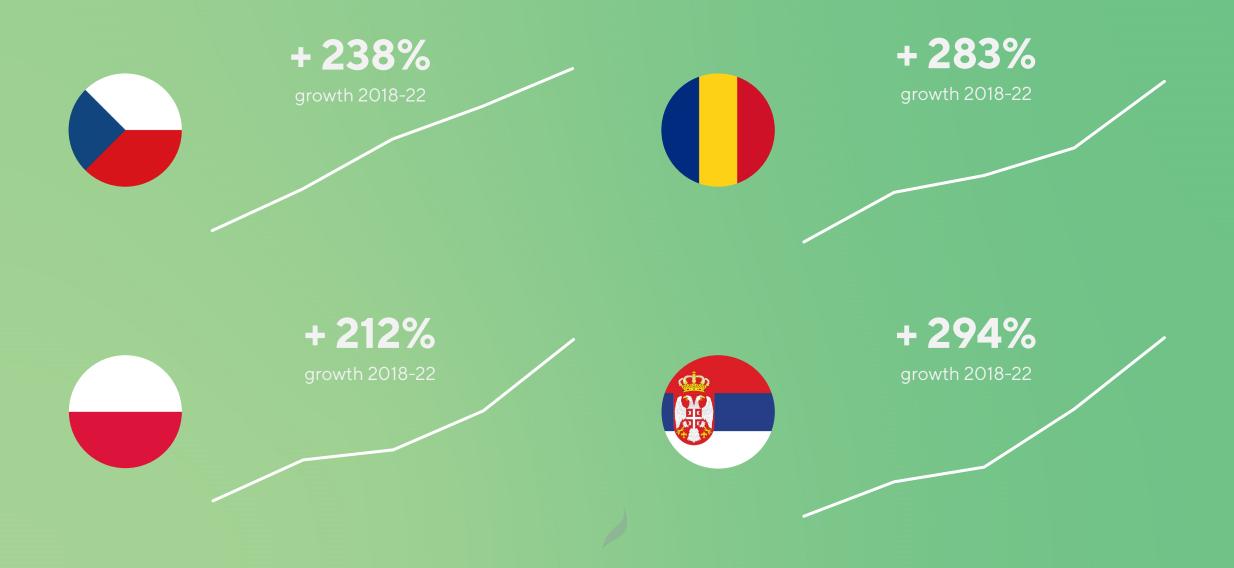




collagen.

an exploding topic in CEE markets

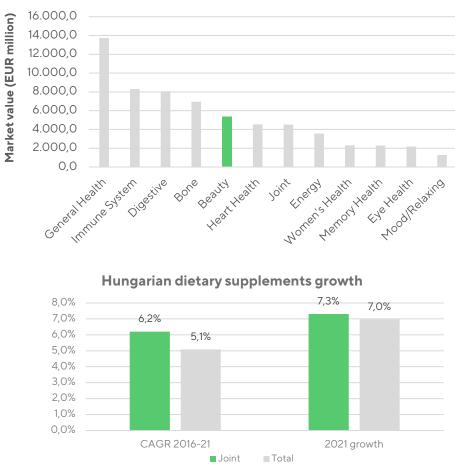
Collagen is an exploding Google topic in CEE markets.



market growth

- rising obesity and life expectancy are increasing joint health issue occurrence
- as a result of poor dietary and exercise habits during the pandemic, many people are looking to improve various health areas, including skin health
- demand for joint health supplements has been growing faster than the total dietary supplement average in the past 5 years globally and in the CEE region
- beauty supplements were among the top 5 largest dietary supplement categories globally in 2022
- Google searches increased by 17,6% for "skin health supplements" in 2022 (Google Trends)





Source: Euromonitor Consumer Health data, March 2023

consumer concerns

Among global consumers:



recognize the influence of skin health on their overall health



take food supplements to improve their skin health



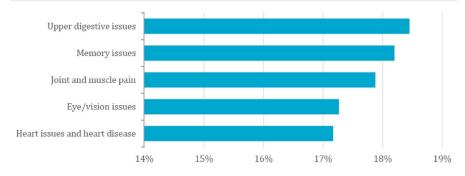
find the products positioned around improving bone & joint health appealing

Source: FMCG Gurus, 2022

future trend

- joint and muscle pain have been in the top 5 consumer health concerns in the past years (Euromonitor International Survey, 2020/2021)
- European consumers have placed joint and muscle pain in the top 3 health concerns for the next 10 years, stating they don't currently suffer from this condition but are concerned about it in the future

Top Health Concerns for European Consumers for the Next 10 Years

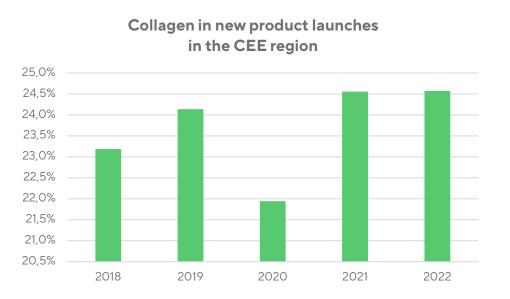


I do not currently have this condition, but I am concerned about it for the future - within the next ten years

Source: Euromonitor International's Health & Nation Survey, 2020, 2021

collagen use

- 43,4% of all new global dietary supplement product launches based on collagen ingredients in 2022 had bone health or skin, nails & hair functional claims (Mintel GNPD)
- collagen ingredients were present in 24,6% of all new dietary supplement launches in the CEE region in 2022
- collagen is the reigning ingredient among specialty supplements (NBJ USA, 2022)



Source: Mintel GNPD, March 2023

There is a promising market opportunity for collagen ingredients.



of global consumers associate collagen with skin health (FMCG Gurus, 2022) in 2020, Frost & Sullivan named collagen peptide as one of the

top growth opportunities to watch

premium segment development

- Frost & Sullivan recently published a "Global Bone and Joint Health Ingredients Growth Opportunities" report, which highlights the opportunity for clinically studied ingredients, such as collagen in the European market
- global and CEE brands are launching a broad range of products based on clinically studied and branded collagen ingredients addressing joint health and beauty

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With increasing number of active and young consumers seeking healthy lifestyle the demand for clinically evaluated bone & joint health ingredients is expected to witness increased penetration in the European market. Ingredients like collagen peptides, vitamin k and curcumin will continue to increase in penetration in line with rising consumer interest in general health and fitness.



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Akheela Dhiman Industry Analyst - Chemicals, Material & Nutrition





Dr. Loges, GER Based on UC-II® Launched in 2022. Remé, POL Based on VERISOL® Launched in 2022. Increasing interest in joint and skin health and a consumer shift towards premium products present a clear market opportunity for clinically studied branded collagen ingredients in the CEE.

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