

The pharmaceutical supply chain in Europe



Cefic and IPEC Europe companies active in Europe

APIC and EFCG, part of Cefic, are the voice of the European Fine Chemicals, Intermediates and API Manufacturers.

IPEC Europe is the voice of the excipients in Europe.

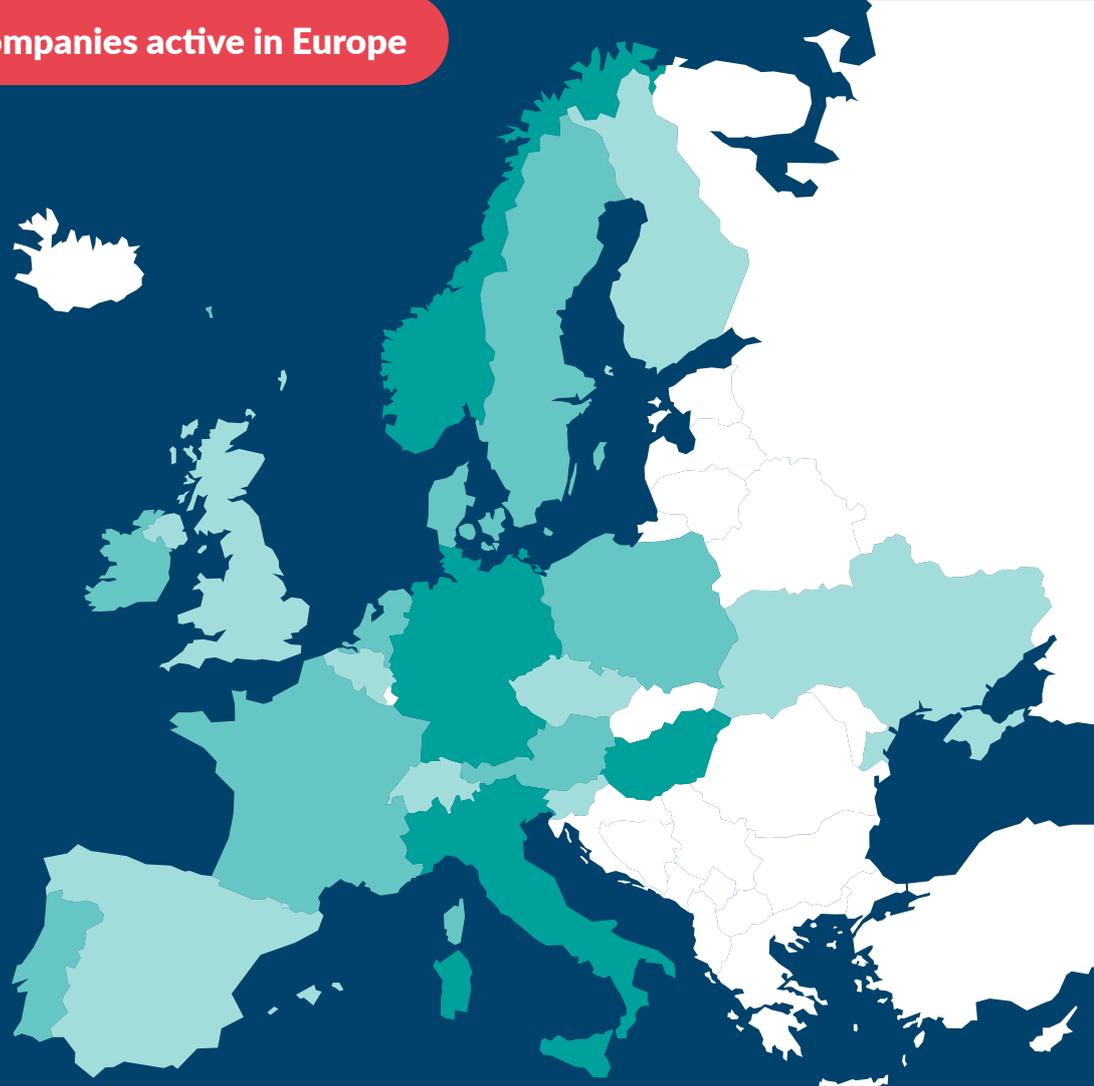
Our combined membership:

More than
110
manufacturing
member companies

4 national
associations

Over
340
fine chemical sites
across Europe

Membership includes
both SMEs and larger
companies



The pharmaceutical value chain

Regulated starting materials



Active Ingredients



Finished Dosage Form



Non Regulated starting materials

Pharmaceutical Excipients



National and regional Wholesalers

Hospitals and Pharmacies

Patients



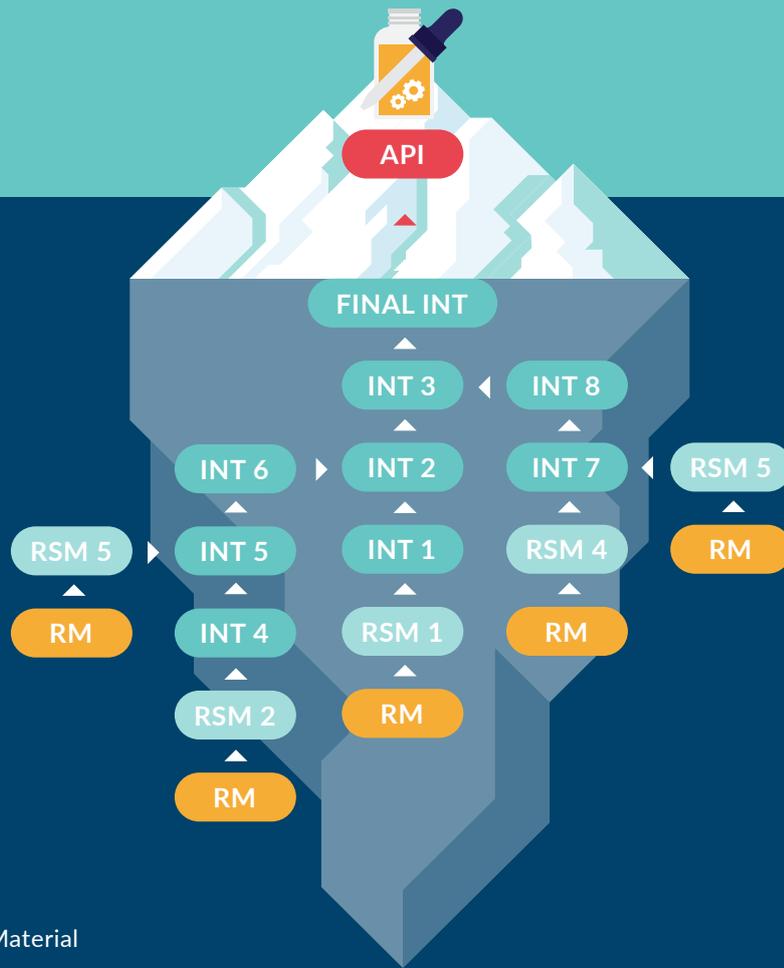
To build a resilient pharmaceutical supply chain, we need a coherent European pharmaceutical strategy to:

- ✓ Restore and **secure the production of the critical and strategic pharmaceutical** components in Europe
- ✓ Support **investments** to boost innovation, ensure European industry's competitiveness globally, whilst maintaining high quality, safety and environmental standards
- ✓ Ensure **regulatory flexibility** (e.g. fast track approvals), to prevent future shortages due to unforeseen events or surges in demand
- ✓ Coordinate at European level a **list of essential medicines** that need to be available at all times and monitor any risks of spikes or shortages

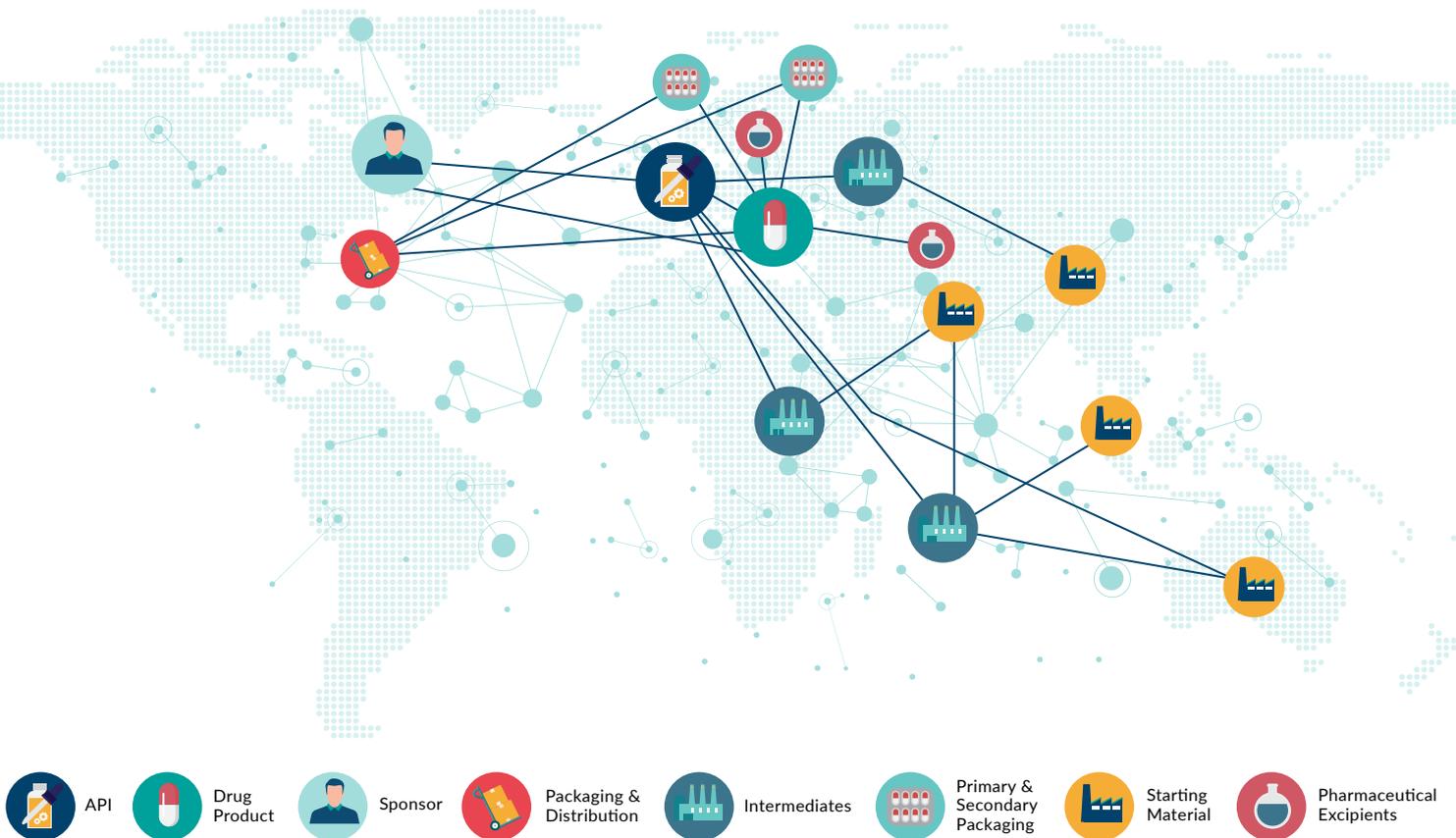
Our European member companies have production facilities, critical know-how, a highly skilled manpower and the highest quality and environmental standards.

We will actively contribute to building a resilient and sustainable European pharmaceutical supply chain.

Producing a single API is a complex process requiring many steps and raw materials



The API and excipient supply chains are global as illustrated by this example:



Member companies

- Abbvie (NL)
- ADM-SIO (FR)
- Ajinomoto Bio-Pharma Services (BE)
- Albumedix (UK)
- Albemarle Europe sprl (BE)
- Allessa (DE)
- Alzchem Trotsberg (DE)
- AMRI (IT)
- Antibioticos de León S.L.U. (ES)
- Armor Pharma (FR)
- Ashland (CH)
- Aspen Oss B.V. (NL)
- Bachem SA (CH)
- BASF (DE + NO)
- BENE0 GmbH (DE)
- BIOGRUND GmbH (DE)
- Boehringer Ingelheim Pharma KG (DE)
- Borregaard (NO)
- Bracco Spa (IT)
- CABB (CH)
- Cabot Norit Nederland BV (NL)
- Cambrex Karlskoga AB (SE)
- Carbogen Amcis (CH)
- Cargill NV (BE & IT)
- Celgene Chemicals GmbH (CH)
- Centriant Pharmaceuticals (NL, ES)
- Cerbios (CH)
- Chemische Fabrik Budenheim KG (DE)
- Ciech Soda (PL)
- Cipan (PT)
- Clariant Produkte GmbH (DE)
- Colorcon Limited (UK)
- Corbion Purac (NL)
- Croda (UK)
- DFE Pharma (DE)
- Dipharma Francis Srl (IT)
- Dow Europe GmbH (CH)
- Dr. Paul Lohmann GmbH & Co. KGaA (DE)
- DSM Nutritional Products (CH)
- DuPont (BE+FR+NL+CH)
- EGIS Pharmaceuticals (HU)
- ESIM Chemicals (AU)

- Esteve Quimica (ES)
- Evonik (DE, FR)
- Excella GmbH (DE)
- F.I.S. SpA (IT)
- F. Hoffmann-La Roche AG (CH)
- Faci SpA (IT)
- Farmak JSC (UA)
- Farmhispania SA (ES)
- Flamma (IT)
- Gattefosse SAS (FR)
- GE Healthcare AS (NO)
- Grace (DE)
- Helsinn (CH)
- Hovione FarmaCiencia SA (PT)
- Imerys Talc Europe (FR)
- IOI OLEO GmbH (DE)
- J&J Janssen Pharmaceutica NV (BE)
- JRS Pharma GmbH & Co KG (DE)
- Jungbunzlauer Ladenburg (DE)
- Kolb Distribution Ltd. (CH)
- Lesaffre (FR)
- Lipoid GmbH (DE)
- Lonza (BE)
- Lubrizol Advanced Materials BVBA (BE)
- LyondellBasell (NL)
- Mallinckrodt Pharmaceuticals (UK)
- Medichem SA (ES)
- Merck KGaA (DE)
- Minakem (BE + FR)
- MSD (BE + US)
- Novasep (FR)
- Novo Nordisk A/S (DK)
- Ofichem BV (NL)
- Olon SpA (IT)
- Omya International AG (CH)
- Orion Corporation, Fermion Oy (FI)
- Patheon Austria GmbH (AT)
- Peter Greven Nederland C.V. (NL)
- Pfizer Inc. (BE)
- Piramal Healthcare UK Ltd (UK)
- PolyPeptide Laboratories AB (SE)
- Procos (IT)

- Qualicaps Europe S.A.U. (ES)
- Robinson Brothers (UK)
- Roquette Freres (FR)
- Rousselot B.V. (NL)
- Saltigo (DE)
- Sandoz (DE + SI) (Lek)
- Sasol Performance Chemicals GmbH (DE)
- Schirm (DE)
- SE Tylose GmbH & Co. KG (DE)
- Sensient Pharmaceuticals Europe (DE)
- Seqens (CU Chemie, Novacyl, PCAS) (FR, DE)
- Seratec (FR)
- SEPPIC (FR)
- Shell Chemicals Europe B.V. (NL)
- Siegfried Ltd (CH)
- Solvay S.A. (BE)
- SSB Stroever GmbH & Co.KG (DE)
- Stearinerie DUBOIS (FR)
- Swords Labs Ltd (BristolMyers) (IE)
- Symrise AG (DE)
- Synthony bv (NL)
- Takeda (AT)
- Tereos (FR)
- Teva Pharmaceuticals Ind. Ltd (IL,IT,HU)
- Uquifa SA (ES)
- Vertellus (UK)
- Vistin Pharma AS (NO)
- WeylChem (DE)
- Xellia Pharmaceuticals ApS (DK, NO)
- Zentiva k.s. (CZ)
- Zerion ApS (DK)

4 Trade Associations

- AFAQUIM (ES)
- Aschimfarma (Federchimica) (IT)
- BioPharmaChem Ireland (IE)
- SICOS Biochimie (FR)

and 1 Partner Association

- BPTF (US)