





























### Content

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- **Distribution**
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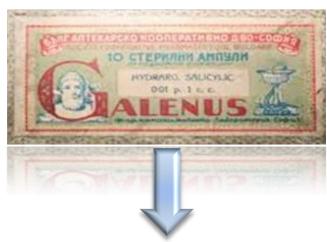






#### Who Are We?

- Company with more than 80 years tradition and modern approach for production of human medicines- modern production, European quality standards, corporate social responsibility
- The Group is a leading, vertically-integrated Bulgarian manufacturer, exporter and distributor of pharmaceuticals and other health related products with a strong presence in Southern and Eastern Europe, offering a wide range of prescription and OTC pharmaceutical products and other health related products and services
- The Group is active on over 40 markets, on 5 continents
- 39 subsidiaries, 7 joint-ventures and 2 associate companies in 7 countries





















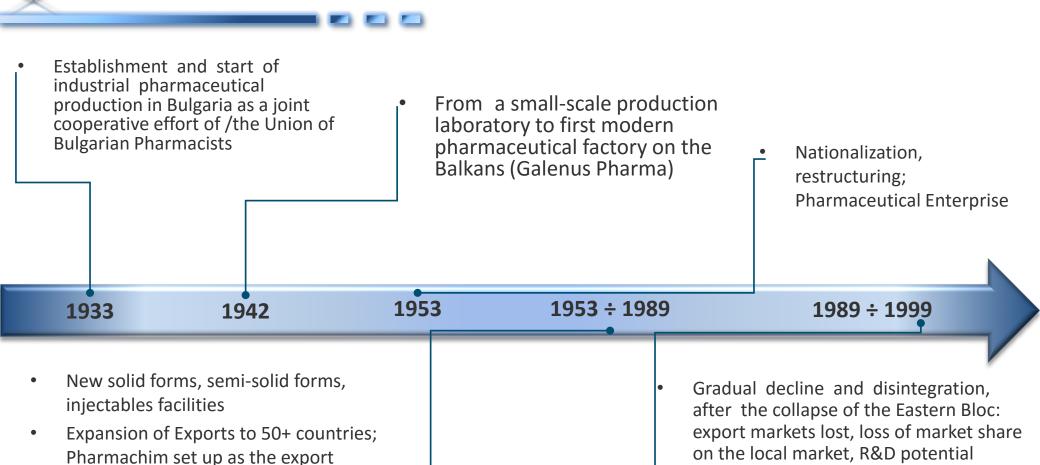








## **Brief History: The Roots, Rise and Fall**







organization



First original products (phytopharmaceuticals)



















almost null

Sopharma listed on BSE



# **Brief History: A New Beginning**

- Privatization Sopharma becoming a privately held pharmaceutical company
- Clear targets set for transforming the company to a pharmaceutical manufacturer compliant with the internationally approved standards for quality and efficiency (EU cGMP)
- Modernization of existing production facilities
- Export markets rapidly recovered and growing, R&D potential regained
- Acquired five small producers
- New modern pharmaceutical plant Vrabevo opened for production of medicinal products
- Licensed its production facilities according to the European GMP

 Expansion in Bulgaria and on neighbor markets (acquisitions in Bulgaria, Ukraine, Russia, Serbia

2000

2001 ÷ 2005

2006 ÷ 2008 - to date

2011 ÷ 2013

2013 ÷ 2015

- Listing on Warsaw Stock Exchange
- The Group opened a new additional production facility in Serbia with an annual capacity of 70 million tablets.
  - The new state-of-the-art solid-forms factory of Sopharma is operational and won three awards in the construction sector
  - The Bulgarian Rose Sevtopolis was delisted and became from a public company to plant which is part of Sopharma PLC
  - Medica AD join Sopharma Group



























## **Corporate structure**

#### **Board of Directors**

Chairman of the Board of Directors and Executive Director

Deputy-chairman of the Board of Directors **Independent Members** of the Board

Members of the Board of Directors

**Independent Members** of the Board

**Director Business operations, Strategic and Organizational** development

**Director Advertising and Corporate Communications** 

**Director Quality Management** 

**Director Cooperation and Licenses** 

**Director Commercial Department** 

**Chief Financial Officer** 

**Director Marketing** 

**Deputy Chief Financial Officer** 

**Director Security** 

**Director Investor Relations** 

**Director Institutional Relations** 

**Director Technical matters** 

**Director Production matters** 

**Director Coordination of production** 

Director "Intellectual property"

**Chief of Production department** 

Head of "Quality Assurance"

**Division "Regulatory Affairs -**Bulgaria and third markets"

**Division "Medical Affairs and** Clinical Trials "

**Division "European Regulations"** 

**Division "Pharmaceutical Products** Safety"

**Human Resources** 

**Chief Accountant** 

Representative office of Sopharma AD in:

- Russia
- Ukraine
- **Poland**
- Kazakhstan
- **Baltic states and Belarus** 
  - Turkey
  - Azerbaidjan
    - Georgia
    - Armenia
    - Tunisia USA

    - Serbia China
  - **Israel & Palestinian** territories





















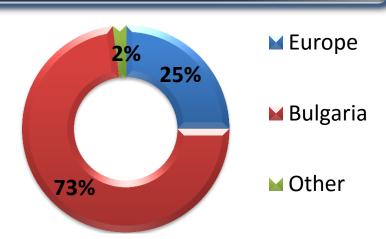


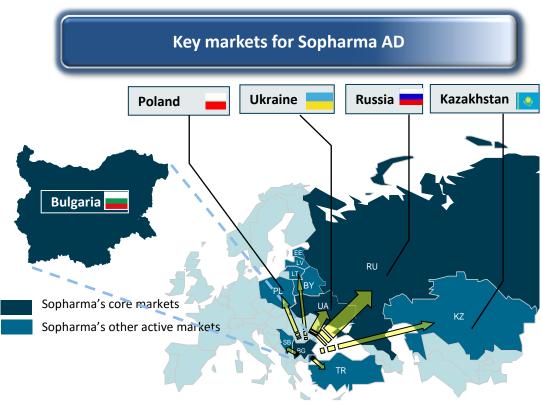


#### **Key & Main Markets**

- The Group is active on over 40 markets, the key markets apart from Bulgaria are: Russia, Ukraine, Kazakhstan and Poland
- Bulgaria is the main market accounting for 73% of its sales revenues in 2016, increasing by 3% compared to the same period of 2015
- Russia and Ukraine being the most significant export markets of the Group representing respectively 6.4% and 5.9% of its revenue in 2016
- Looking ahead, expected sales of finished products growth due to stabilization in Russia and Ukraine markets

Revenue breakdown by geographic region in 2016

























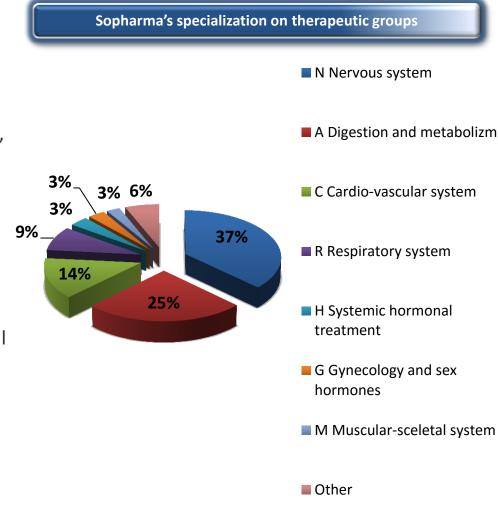






## **Product Portfolio**

- More than 210 products in the portfolio mainly in the form of tablets and ampoules
- The strength of Company's product brands, both original products, including own phyto-based products, and branded generics supported by their quality and efficacy provide a competitive advantage as in the pharmaceutical sector recognition and a good reputation are of key importance
- Very strong position in the domestic market
- Leading position of the Group on the Bulgarian hospital market – high volume sales, liberal payment schedule, low risk
- Partner of choice for cooperation with large international pharma companies (current relationships with GSK, Novartis, Janssen-Cilag, Wyeth)























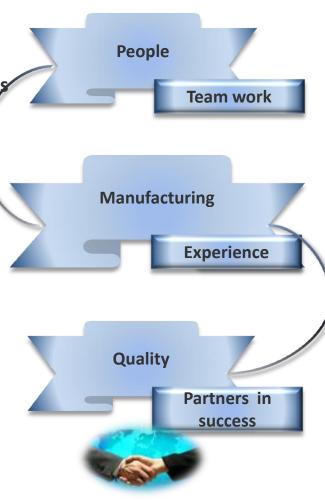






# Sopharma as a CMO

- ✓ Our company offers a large variety of CM services:
  - EU-GMP compliant pharmaceutical contract manufacturing,
  - EU primary and secondary packaging services for international markets
  - Development of various dosage forms
  - Technological transfer of customer-developed products
  - Cleaning validation, Process validation
  - EU batch release and batch control
- ✓ Sopharma offers manufacturing of different dosage forms:
  - solid dosage forms (both sugar and film-coating tablets, hard gelatin capsules
  - semi-solid dosage forms (creams, gels, ointments, suppositories)
  - sterile dosage forms (terminal sterilization and aseptic preparation,
     BFS technology)
  - non sterile solutions (syrups, oral suspensions, ear drops, liquids for external use)
  - CMO services of medical devices

























## Sopharma as a CMO

**Our quality management** system provides the backbone of our contract manufacturing operations.

**Provide products** manufactured to the highest quality standards backed by prompt storage and delivery

More than 210 different products are produced by Sopharma's pharmaceutical manufacturing plants and distributed to 40+ countries for various international partners

Established, trusted manufacturer with a 80+ year track record

Sopharma provides customers with a dependable, experienced and trustworthy resource for the contract manufacturing services for more than 26 years

The Company's cost structure enables Sopharma AD to offer high quality competitively priced products

The capability of our organization and its facilities capacity is a guarantee for a high quality affordable product in a timely manner.



























### How do we look?

















Talert

























## How do we look?











































# **Quality Management System**



























# Sopharma's QMS – main elements

# Management Dept System R&D Finished products



Quality

















OB







# **Manufacturing sites**



























## Manufacturing sites

# **Sopharma Group Total headcount: 1834 employees** Sopharma **PLC** Revenue breakdown by Finished product sales, 2016 ■ Solid dosage forms ■ Sterile dosage form; ■ Non sterile solutions 17% ■ Semisolid Dosage 65% **Forms**

Solid Dosage Forms Plant

Ampoule Plant

Lyophilized products
Plant

Suppositories Plant

Vrabevo Plant

**Kazanlak Plant** 

**Medica AD** 

**Public companies** 

Unipharm AD

Biopharm Engineering

\* 2016- Tender offering for the shareholders of Unipharm AD (pending approval from the BFSC)











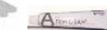




**M** Others













# Manufacturing sites – production capabilities

## **Solid Dosage Forms**

Plant Name	Granulation EU GMP	ation		Film-	Sugar	Hard gelatin	Primary packaging	IMP	
	certificate	High-sheer mixer	Fluid bed dryer	Compression	coating	coating	capsules (size 0 ÷ 4)	Material	License
Solid Dosage Forms Plant			2		10		● (size 0 ÷ 4)	AI/ AI AI/ PVDC AI/ PVC AI/PCTFE	0
Vrabevo Plant	•	0	•	•	•	•	0	AI/ PVDC AI/ PVC	0
Kazanlak Plant								AI/ AI AI/ PVDC AI/ PVC	
Unipharm	•	•	•	•	•	0	0	AI/ PVDC AI/ PVC	0
Medica Plant		40	1			2	• (size 0 ÷ 1)	AL/PVDC AL/PVC	0
							Legend:	Available ot available	

























# Manufacturing sites – production capabilities

## **Sterile Dosage Forms**

Plant Name	EU GMP certificate	Depyrogenizati on	Terminal st	erilization Product	Aseptic preparation	BFS	Filling volumes	Primary packaging Material	IMP License
Ampoule plant	10	1	1		1	0	1 ÷ 10 ml	Glass ampoules	0
Freeze-dried products plant	•	•	•	0	•	0	1 ÷ 10 ml	Glass ampoules	0
Biopharm Engineering	1			EN			BFS 0.7 ÷ 500 ml PP Bags 250÷1000ml	PP, PVC, PE, PET	0
							Legend:		
							o <b>N</b>	<ul> <li>Available</li> <li>Not available</li> </ul>	

#### Non sterile solutions

Plant Name	EU GMP certificate	Syrups	Oral suspensions	Ear drops	Liquids for external use	Primary packaging Material	IMP License
Vrabevo Plant	AT CONTRACT		-	0	0	PET and Glass bottles	0
Unipharm	•	0	0	•	0	Glass vials	0
Medica Plant	THE .	0	0	0		PET, HDPE, PETG and Glass bottles	0
	The Second				Mary Mary	<b>Legend:</b> ● Availa ○ Not av	SO 7 7 - TOWNS

























# Manufacturing sites production capabilities

### **Semisolid Dosage Forms**

Plant Name	EU GMP certificate	Creams	Gels	Ointments	Suppositories	Primary packaging Material	IMP License
Vrabevo Plant	PHA TOWN	1000	•	All OF THE	0	Al-tubes	0
Unipharm	•	•	•	•	0	Al-tubes	0
Suppositories plant		0	0	0	F 586 00	Bilayer PVC/ PE	0
						Legend:	
						• A\	vailable
						0 N	ot available

#### **Medical devices**

Plant Name	Dressings (sterile and non sterile)	Swabs (sterile and non sterile)	Bandages	Compressing stockings	Elastic support products	First-aid strips and adhesive rolls	Sterile sets for surgical manipulations, first aid kits	Primary packaging Material	EC Certificate; ISO 9001:2008; ISO 13 485:2003
Medica AD		50 3		10 34	130		363	Paper/Paper Paper/PP/PA Paper/PP/PE	7
									vailable ot available

















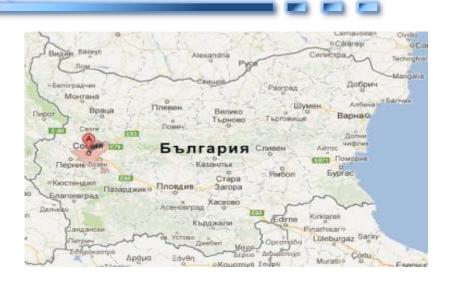








## **Solid Dosage Forms Plant**





Location	Total surface, m <sup>2</sup>	otal surface , m <sup>2</sup> Employees	
Sofia – the capital of Bulgaria	22 000 m <sup>2</sup>	255	4bn tablets

























# **Solid Dosage Forms Plant**

#### \* Main manufacturing equipment

- ✓ Fluid bed dryers:
  - → BOSCH-HUETTLIN (nominal volume 527 I) with drying capacity 50÷240 kg/ granulation capacity 50÷210kg
  - → BOSCH-HUETTLIN (nominal volume 937 I) with drying capacity 100÷490 kg/ granulation capacity 100÷375 kg
- ✓ Blenders with capacities 306÷1300 l, 170÷720 l, 102÷433 l. All from L.B. Bohle Maschinen
- ✓ Film-coating drums with capacities 200÷400 kg; 90÷120 kg (Bohle and Manesty )
- ✓ High Shear Mixer (nominal volume 400 l) with capacity 65÷180 kg (BOSCH-HUETTLIN)
- ✓ Tablet presses FETTE
- ✓ Packaging lines Uhlmann
- ✓ Capsule filling machine MG2 Planeta (capsule's size 0÷4) with capacity 50 000 capsules per hour

# We are a customer-focused organization!





















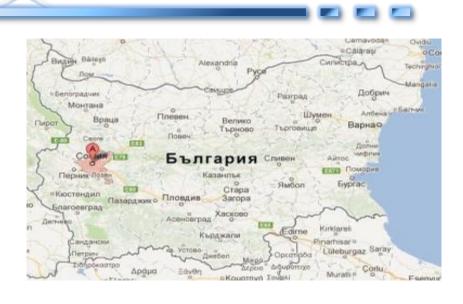




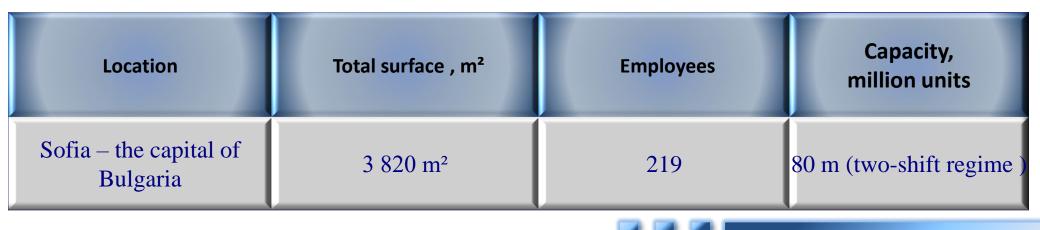




































#### \* Main manufacturing equipment:

- ✓ PW Installation, Aqua PW System, capacity up to 6 t/h
- ✓ WFI Installation, Gettinge Kemiterm, capacity up to 1.5 t/ h
- ✓ Lines for visual inspection + High Voltage Leak Detection( leak detection, pinhole and crack detection) :
  - ∠ AIM 277+Convel: Bosch Eisai + Convel, 2014
  - AIM 296 + Nika: Eisai, 2007 + Bausch & Ströbel / Nikka Densok , 2007
  - → AIM 296 + KLD: Eisai, 2015 + Bosch, 2015
- ✓ Labeling lines Newman 6VA and Newman VAL 550
- ✓ Secondary packaging lines:
  - → Mediseal, 2015
  - ✓ Soteco , IMA Group
- ✓ Box coding UDA 150S, Metronic

2015: Reconstructed and refurbished to double the capacity!







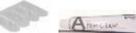


















#### Main manufacturing equipment

#### ☐ Terminal sterilization:

- ✓ Vessels, Schrader, capacity 20 l, 50 l, 100 l, 250 l
- ✓ Washing-depyrogenization-filling-sealing line ALF (RRU+HQL+ALF), Bosch 2015 for 1, 2, 5 and 10 ml glass ampoules; capacity 1&2 ml- 24 000 units/ h
- ✓ Washing-depyrogenization-filling-sealing line line AVR (RUR+TLQ+AVR), Bosch 2007; capacity 2 ml glass ampoules – 6 ÷ 16 000 units/h; 5 ml – up to 12 000 units/h; 10 ml up to 9 000units/h
- ✓ Steam sterilization module GEL 91425, Getinge, 3000 l



























## Main manufacturing equipment

#### Aseptic Preparation:

- ✓ Vessels, capacity 100 l, 300 l
- ✓ Washing-depyrogenization-filling-sealing line ALF (RRU+HQL+ALF), Bosch 2007, capacity 1&2ml glass ampoules – up to 24 000 units/h, 5 ml -up to 15 000 units/h; 10ml -up to 9 000 units/h
- ✓ Aseptic sterilization module GE 6613, Getinge, 500 | & GEL 91425, Getinge, 3000 l

















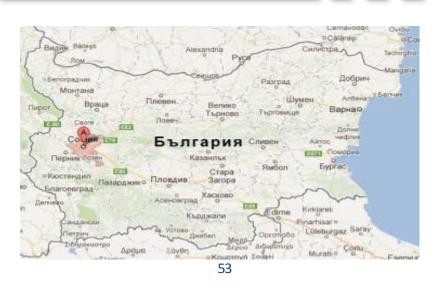








## **Lyophilized Products Plant**





Location	Total surface , m <sup>2</sup>	Employees	Capacity, million units
Sofia – the capital of Bulgaria	1 250 m <sup>2</sup>	50	7.2m ampoules, 4.3m lyophilic ampoules



























# **Lyophilized Products Plant**

## Main manufacturing equipment

- ✓ PW Installation, Aqua PW System
- √WFI Installation, Gettinge Kemiterm
- ✓ Vessel Buchi 15 l, equipped with dosing device, cryostat, pH-meter, thermocouple
- ✓ Vessel, Steridose, capacity 50 l
- ✓ Lyophilizer, Leybold
- ✓ Autoclaves Tuttnauer

















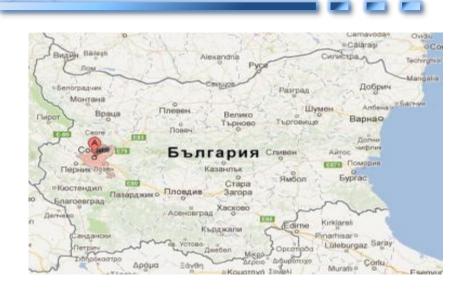




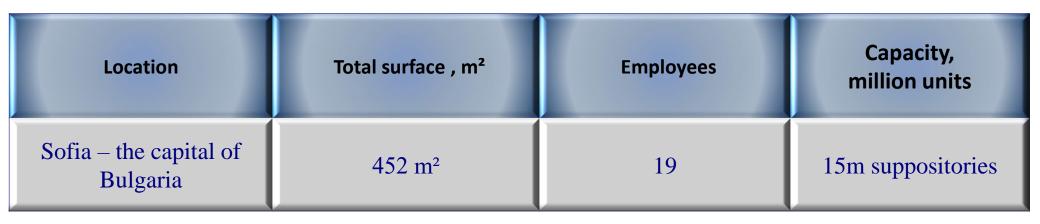




## **Suppositories Plant**































# **Suppositories Plant**

## Main manufacturing equipment

- ✓ Homogenizer Fryma VME-400
- ✓ Vessel 120 l
- ✓ Filling and packaging line Sarong SAAS 15/AP







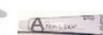








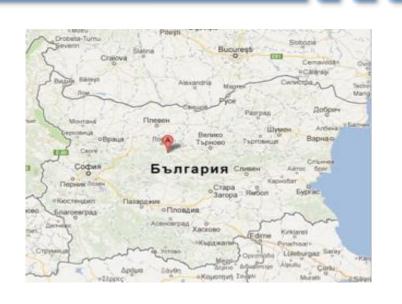














Location	Total surface, m <sup>2</sup>	Employees	Capacity, billion and million units
Lovech district —central part of Bulgaria; about 150 km from Sofia	6 987 m²	215	1bn tablets, 20m syrups, 30m ointments



























#### Solid dosage forms manufacturing site

#### Main manufacturing equipment

- ✓ Fluid bed dryer Glatt WSG-CD 60 with capacity 40÷120 l
- ✓ Blender Glatt KCM with capacity 40÷100 l
- ✓ Film-coating drum Glatt GCM 175 with capacity 80÷130kg



























#### Semisolid dosage forms manufacturing site

#### \* Main manufacturing equipment

- ✓ Vessels ZOATEC 200 I, 500 I and 700 I
- √Homogenizer up to 700 l
- ✓ Filling and packaging line
  NORDENPAC for Al and laminate
  tubes with filling head for 5 ÷ 150 ml
  and tube's holders with diameter 20
  mm



























#### **Non Sterile Liquids manufacturing site**

#### Main manufacturing equipment

- ✓ Vessel Steridose 2 800 l
- ✓ Vessel Rotamil 1 000 l
- √ Homogenizer ROMACO FrymaKoruma with capacity 100 l /min suspension
- ✓ Primary packaging line Marchesini ML 661
- ✓ Secondary packaging line Marchesini MA100



























## **Kazanlak Plant: Solid dosage forms, Phyto-APIs & Synthetic products**





Location	Dosage form	Total surface, m <sup>2</sup>	Employees	Capacity, billion and million units
Kazanlak district – central part of Bulgaria; about 260 km from Sofia	Ointments	1 022 m²	224	30 m ointments
	Tablets	2 400 m <sup>2</sup>	234	exp. 4bn tablets 100t of substance

























## Kazanlak Plant: Solid dosage forms, **Phyto-APIs & Synthetic products**

#### Solid dosage forms manufacturing site

#### Main manufacturing equipment

- ✓ Fluid bed dryer Glatt WSG-UDP 60 with capacity 40÷100 l
- ✓ Blenders with capacities 40÷100 l, 80÷200 l, 225÷6001
- ✓ Film-coating drums:
  - ☐ Glatt GC 1250 with capacity 80÷150 kg
  - → Glatt GC 1500 with capacity 200÷340 kg
  - ☐ Technicota 400 with capacity 200÷340 kg
- ✓ High Shear Mixer Fielder RMA 400/ 261 VAC with capacity 80÷140 kg
- ✓ Capsule filling machine Macofar MT 80 (capsule's size  $0 \div 4$



























# Kazanlak Plant: Solid dosage forms, Phyto-APIs & Synthetic products

### **Phyto-APIs manufacturing site**

\* The plant is equipped with a production line for manufacturing of APIs





















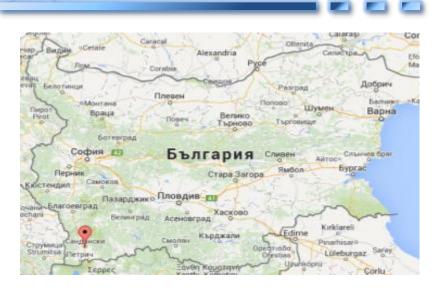














Location	Facilities Area (production +QC + warehouses)	Employees	Capacity, Units
Sandanski – southwest part of Bulgaria; about 160 km from Sofia		198	Find the slides below; depends on the product

























#### Medical devices manufacturing site

#### Main manufacturing equipment

- ✓ Gauze Compress folding machines Bouda with capacity 5 000÷ 7000 pcs/hr
- ✓ Blister machines for sterile products Hammerle with capacity 1 000÷ 1500 pcs/hr
- ✓ Flat Packing machine for sterile products Holweg RV with capacity 1 000÷ 1500 pcs/hr
- ✓ Flow packing machine Tevofarm for bandages with capacity 1000-1200 pcs/hr
- ✓ Weaving machines Jakob Muler
- ✓ Knitting machine Rius Medical 1000
- ✓ Circular knitting machines Lonati
- ✓ Rolling machines for bandages
- ✓ Steam autoclave for medical devices TBM with capacity 10 m<sup>3</sup>

































#### Solid dosage forms manufacturing site

#### \* Main manufacturing equipment

- ✓ Fluid bed dryer Aeromatic with capacity 60÷100 l
- ✓ High Shear Mixer Lodige MGT 400P
  with capacity 100 ÷ 150 I
- ✓ Blender Fucs Tip B with capacity 100÷200 I
- ✓ Film-coating drums:

  - ¬ GS HT/M300 with capacity 100÷250 kg
- √ Tablet presses Fette, Ronchi
- ✓ Primary and secondary packaging line Noack
- ✓ Capsule filling machine Zanassi AZ40 (capsule's size 0÷1)





























#### **Non Sterile Liquids manufacturing site**

- Main manufacturing equipment
  - ✓ Vessels with capacities 100 l, 250 l, 800 l
  - ✓ Filling machine semiautomatic, with filling volume from 15 to 500 ml and capacity, up to 1000pcs/hr



















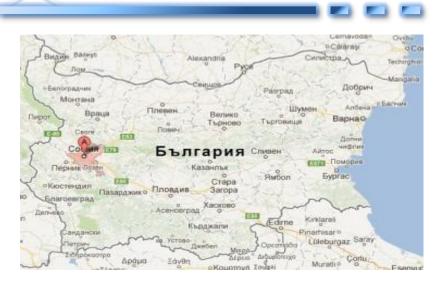








# **Unipharm**





Location	Total surface , m <sup>2</sup>	Employees	Capacity, million units
Sofia – the capital of Bulgaria	846 m²	168	750m tablets



























### **Unipharm**

#### \* Main manufacturing equipment

- ✓ Fluid bed dryer Bohle BSF-60 with capacity 40÷100 l
- ✓ Blenders with capacities 60÷160 l, 90÷240 l, 102÷433 l
- ✓ Film-coating drums Bohle with capacities 50÷100 kg
- ✓ High Shear Mixer Pivot P25 with capacity
  15÷40 kg
- ✓ Primary packaging line Romaco Noack
   623 with capacity 250 blisters per minute
- ✓ Secondary packaging line Romaco Promatic P 91 with online batch number and expired date coding









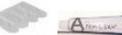












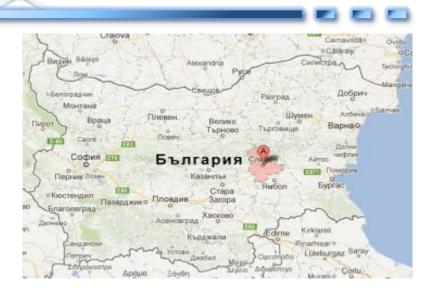


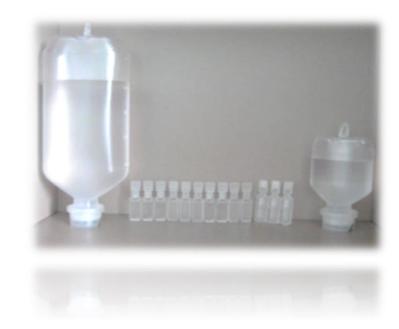






# **Biopharm Engineering**





Location	Facilities Area (production +QC + warehouses)	Employees	Capacity, Units(ampoules, vial)/ hour
Sliven— eastern part of Bulgaria; about 300 km from Sofia	2 000 sq. m.	114	BFS vials: 12 000 BFS bottles: from 2500 to 3500

























# **Biopharm Engineering**

#### \* Main manufacturing equipment

- ✓ Line for large volumes i.v. terminally sterilized solutions
- ✓ The new Blow-Fill-Seal Line, Weiler 640 (series ASEP-TECH) is fully operational from 2015 year
- ✓ Capacity:
  - 1ml, 2 ml and 3 ml BFS vials :
     ~12 000 ampoules/ hour
  - BFS 100 ml bottles:
    - ~ 3000 ÷ 3500 bottles/ hour
  - BFS 250 ml bottles:
    - ~ 3000 bottles/ hour
  - BFS 500 ml bottles:
    - ~ 2500 bottles/ hour



\*All volumes are approximate and should be discussed case by case

























## **Spare Capacities\* - flexible**

- ✓ **Solid dosage forms:** 1.4 ÷ 1.6 billion units/ year
- ✓ **Semi-solid dosage forms** 10 million units/ year
- ✓ Sterile dosage forms:
  - ∠ Small volumes
    - Terminal sterilization: 16 000 000 units/ year
    - Aseptically prepared: 19 000 000 units/ year
  - ∠ Large BFS volumes:
    - 20 million units/ year (BFS bottles 100 ml; 2 mode shift)
    - 12 million units/year (BFS bottles 250 ml; 2 mode shift)
    - 7 million units/ year (BFS bottles 500 ml; 2 mode shift)
  - → Small BFS volumes:
    - 120 million units/ year (BFS vials 1 ml, 2 ml and 3 ml; 2 mode shift)
- \*All volumes are approximate and should be discussed case by case

























# QC/ R&D/ QA





















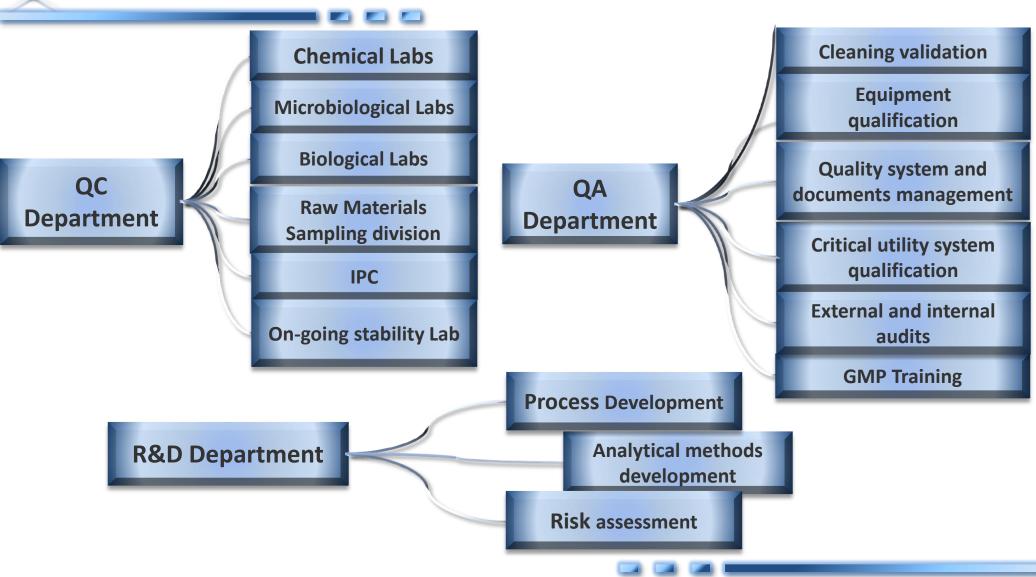








## QC, QA, R&D Departments



























### Logistics



- √ 30 + countries receive Sopharma's goods by air transport
- ✓ Georgia, Austria, Albania, Germany, USA, Serbia, Poland, Macedonia, Rumania, Sweden and many others



- ✓ 20 + countries receive Sopharma's goods by land transport
- ✓ Russia, Ukraine, Albania, UK, Greece, Turkey, Latvia, Holland, Czech Republic, Azerbaijan and many others.



40 + countries benefit from Sopharma's logistic services



✓ Sopharma's goods to Korea, Mongolia, Malta by sea transport





















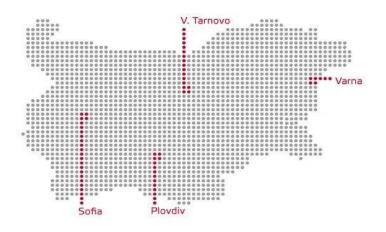




# **Logistic Facilities**

#### **Potential**

- ✓ 4 distribution centers
- √ 17 500 sq. m. warehouse area
- ✓ 170 sq. m. storage area for thermo susceptible products



#### New logistic center in Varna

- ✓ Total area: 7 400 sq. m.
- √ Warehouse area: 2 800 sq. m.
- ✓ Capacity: 10 000 items



























## Distribution and wholesaling

- Main distributor of Sopharma products in Bulgaria, mainly by pre-wholesaling
- Number one in hospital segment
- Number one medical equipment supplier
- Top position in the retail market





























# **Summary**

- ✓ More than 80 years tradition and modern approach for production of human medicines
- ✓ Sopharma offers manufacturing of tablets, film-coated tablets, sugar-coated tablets, capsules, injectables (terminally sterilized or aseptically prepared), lyophilized products, infusions, syrups, oral suspensions, ointments, cream, gels, suppositories, medical devices, phyto-APIs
- ✓ We provide products manufactured to the highest quality standards backed by prompt storage and delivery
- ✓ Our quality management system provide the backbone of our manufacturing operations
- ✓ Our packaging are designed and printed in our own printing house
- ✓ All of our manufacturing sites are EU GMP
- ✓ The Company's cost structure coupled with the know how and GMP certifications of the majority of its productions facilities enables the Company to offer high quality competitively priced products







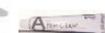


















# Thank you for your time and attention!



e-mail: alichkova@sopharma.bg



























