

PHASE 2: CLIMATE & REGIONAL SUITABILITY MAPPING

Medicinal • Nutraceutical • Skin • Hair • Therapeutic Raw Materials

Purpose of This Phase

- Match crops to **optimal climates and regions**
- Identify **best global sources** for high-potency active ingredients
- Support **member crop selection based on geography**
- Enable **logistics, aggregation, and processing planning**

A. TROPICAL CLIMATE CROPS

(Warm temperatures, high humidity, moderate–high rainfall)

Ideal Regions

- **Africa:** East Africa, West Africa, Central Africa
- **Asia:** India, Sri Lanka, Indonesia, Philippines, Thailand
- **Americas:** Brazil, Colombia, Central America, Caribbean
- **Oceania:** Papua New Guinea, Northern Australia

Key Crops & Best Regions

Crop	Best Regions for Potency & Yield	Primary Use Categories
Aloe vera	East Africa, India, Mexico	Skin care, burns, gels, hair
Moringa	Kenya, India, Philippines	Nutrition, supplements
Neem	India, Sri Lanka, Sahel Africa	Medicinal, skin, hair
Turmeric	India, Indonesia	Anti-inflammatory, supplements

Ginger	Nigeria, India, China	Digestion, pain relief
Lemongrass	Kenya, India, Thailand	Oils, massage, aromatherapy
Coconut	Philippines, Indonesia, Sri Lanka	Oils, cosmetics, food
Papaya	Kenya, Brazil, India	Enzymes, digestion, skin
Avocado	Kenya, Mexico, Peru	Oils, skin & hair
Baobab	Southern & East Africa	Supplements, skin

B. SUB-TROPICAL CLIMATE CROPS

(Warm summers, mild winters, moderate rainfall)

Ideal Regions

- **Africa:** Southern Africa, parts of North Africa
- **Asia:** Southern China, Pakistan
- **Americas:** Southern USA, Chile
- **Europe:** Mediterranean Basin

Key Crops & Best Regions

Crop	Best Regions	Primary Use Categories
Rosemary	Mediterranean Europe	Skin, hair, massage
Thyme	Spain, Morocco	Medicinal, respiratory
Sage	Italy, Turkey	Oral care, skin

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Oregano	Greece, Turkey	Antimicrobial
Pomegranate	Iran, India, Turkey	Antioxidants, skin
Sesame	Ethiopia, India, Sudan	Oils, massage
Castor	India, Brazil	Hair growth, skin
Sunflower	Ukraine, Argentina	Cosmetic oils
Pumpkin seeds	China, Eastern Europe	Prostate, hair

C. TEMPERATE CLIMATE CROPS

(Cool winters, warm summers, moderate rainfall)

Ideal Regions

- **Europe:** Germany, France, Poland
- **North America:** USA, Canada
- **Asia:** Northern China, Korea, Japan
- **Oceania:** Southern Australia, New Zealand

Key Crops & Best Regions

Crop	Best Regions	Primary Use Categories
Chamomile	Germany, Egypt	Skin calming, teas
Lavender	France, Bulgaria	Oils, aromatherapy
Calendula	Eastern Europe	Skin healing
Peppermint	USA, India	Digestive, oils

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Echinacea	USA, Germany	Immune support
Elderberry	Europe, USA	Immune syrups
Valerian	Europe	Sleep, stress
Dandelion	Europe, North America	Detox

D. ARID & SEMI-ARID CLIMATE CROPS

(Low rainfall, high temperatures, drought-tolerant)

Ideal Regions

- **Africa:** Sahel, North Africa
- **Asia:** Middle East
- **Americas:** Mexico, Peru

Key Crops & Best Regions

Crop	Best Regions	Primary Use Categories
Frankincense	Somalia, Ethiopia, Oman	Therapeutic, skin
Myrrh	Ethiopia, Yemen	Oral care, balms
Aloe vera	Kenya, Namibia	Skin, hair
Date palm	Middle East, North Africa	Nutrition
Gum arabic	Sudan, Chad	Cosmetics stabilizer

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E. HIGH-ALTITUDE & COOL CLIMATE CROPS

Ideal Regions

- **Africa:** Ethiopian Highlands, Mount Kenya region
- **Asia:** Himalayas, Tibet
- **Americas:** Andes
- **Europe:** Alps

Key Crops & Best Regions

Crop	Best Regions	Primary Use Categories
Maca	Peru (Andes)	Energy, hormones
Ginseng	Korea, China	Adaptogens
Artemisia	Ethiopia, China	Medicinal
Goji berry	China, Mongolia	Antioxidants
Rhodiola	Siberia, Scandinavia	Stress, endurance

F. MEDICINAL FUNGI & ALGAE – REGIONAL SUITABILITY

Crop	Best Regions	Climate Type
Reishi	China, Japan	Temperate
Lion’s Mane	USA, China	Temperate
Cordyceps	Tibet, Nepal	Alpine
Chaga	Russia, Canada	Cold

Spirulina	Kenya, India	Warm aquatic
Chlorella	Taiwan, Japan	Controlled systems

HOW COUNTRY DIRECTORS SHOULD USE THIS PHASE

1. **Map member locations to climate type**
2. Shortlist **5–10 best-suited crops per country**
3. Align crops with:
 - Existing farming skills
 - Available land and water
 - Processing and transport logistics
4. Prepare for **Phase 3: Product Line Mapping**

OUTPUT VALUE FOR THE COMMUNITY

- Reduces crop failure risk
- Improves ingredient potency and quality
- Ensures regional specialization
- Supports scalable contract farming

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