TAVISHA ROBOTICS

NEXT GENERATION WORKERS

www.tavisharobotics.com

We are a core engineering company who develops assistive tech solutions for various sectors who needs assistance in day today activities.

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Pain Point

A person's mobility and dexterity will naturally decline as they age, which makes completing everyday tasks more difficult.

Workers on the Manufacturing, Construction, Mining & assembly line are putting immense physical effort for handling power tools with bare hands to meet the productivity.

Source : WHO Rehabilitation Need Estimator
people affected by lower back pain / Musculoskeletal Disorder

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Concept Design developed / patented by Tavisha Robotics

Proposed Solution

As a solution we designed an Full Passive exosuit to prolong user's mobility and to make the workplace safe and enhance the worker's productivity.

Exoskeletons are supporting structures carried on the body which support movement sequences with mechanical assistance

Our Exosuit protect & supports,

- Spine
- Shoulder Joints
- Hip Joints
- Knee Joints

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Market

World Health Organization | Health Topics | Countries | Newsroom | Emergencies

- **In 2020, low back pain (LBP) affected 619 million people globally and it is estimated that the number of cases will increase to 843 million cases by 2050, driven largely by population expansion and ageing (1).**
- LBP is the single leading cause of disability worldwide and the condition for which the greatest number of people may benefit from rehabilitation.
- LBP can be experienced at any age, and most people experience LBP at least once in their life.
- Prevalence increases with age up to 80 years, while the highest number of LBP cases occurs at the age of 50–55 years. LBP is more prevalent in women (2).
- Non-specific LBP is the most common presentation of LBP (about 90% of cases).

The Indian EXPRESS
JOURNALISM OF COURAGE

Subscri

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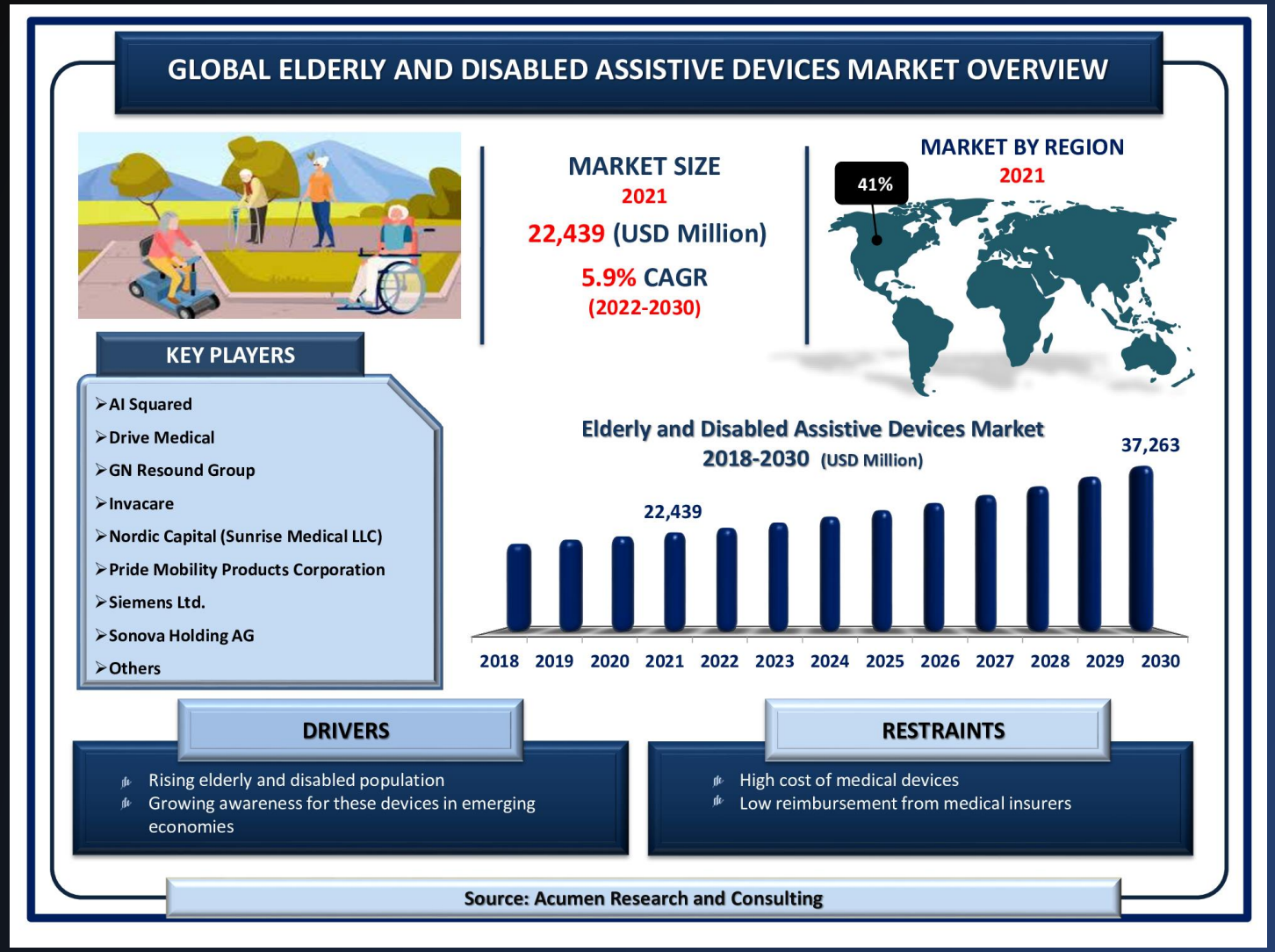
News / Cities / Pune / Study finds 87.5 million low back pain cases in India, doctors say surgery not only soluti

Premium

Study finds 87.5 million low back pain cases in India; doctors say surgery not only solution



Market

The market size for assistive technology (AT) for the disabled and elderly in India was valued at $716.2 million in 2023. It is expected to grow to $2,765.8 million by 2030, with a compound annual growth rate (CAGR) of 20% from 2024 to 2030.

Industrial Exoskeleton market is expected to reach 13.9(2030)billion from 493(2021)million USD

Medical
Assistive Tech

Defence
Assistive Tech

Automobile
Industry

Application
Fields
For
Our Product

Logistics &
Warehouse
Industry

Construction
Industry

Mining
Industry

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Business Model

We have two revenue models

1)Selling with 20,000Rs Profit

2)Renting for 1500RS Per month

Projections

100 product sale with EST profit 20,00,0000 INR

Renting 100 products for 1500 per unit per month 100*1500*12 =18,00,000

3rd year 1000 product sales with EST profit 2,00,00,000 INR

Renting 1000 products for 1500 per unit per month 1000*1500*12 =1,80,00,000

4th year 2000 product sales with EST profit 4,00,00,000 INR

Renting 2000 products for 1500 per unit per month 1000*1500*12 =3,60,00,000

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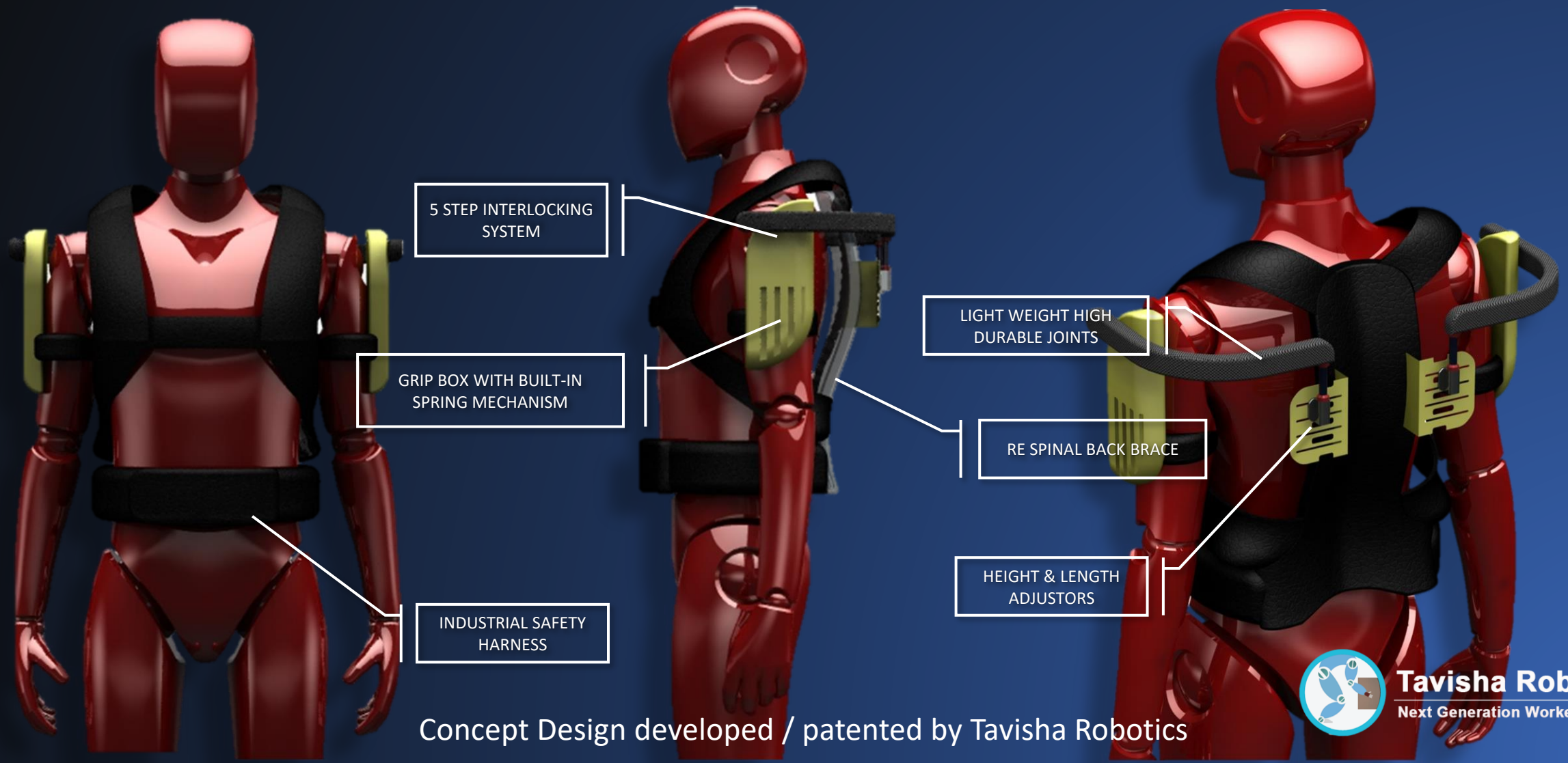
FULL PASSIVE

LIGHT WEIGHT

MODULAR

Innovation Features



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G T M


M1
Association with Government Hospitals / Old age Homes
Hospitals with specific Orthopaedic care unit
Collaborating with Assistive tech communities / Social Media
I1
Association with Government Industrial Labour Safety to increase safety Awareness
Product Expo & International Exhibitions
Conducting Campaigns on Industrial Safety Awareness
PR / Digital Marketing / Retail Stores
CUSTOMERS

Competitive Landscape

INNOPHYS Muscle suit every costs around **1,400USD** per unit

Our passive Exosuit costs around **50,000INR** per unit

Less Maintenance

Expensive

Affordable

High Maintenance

COMAU

INNOPHYS

ROAM

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HONDA The Power of Dreams

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Panasonic

HYUNDAI

SARCOS

MITSUBISHI HEAVY INDUSTRIES, LTD.

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Interaction With Indian Military For Passive Exoskeleton Development

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TEAM TAVISHA - Founders

Mr. Karthick Kannan.M Co-Founder

Software developer - PLM (Product Lifecycle Management) - 7+ Years
Bachelor’s degree in information Technology.
worked in PLM for different clients such as Panasonic India, Rane NSK Pvt Ltd, Chennai.

kkannan@tavisharobotics.com
+91-8754267784

Mr. Gokul Raj.S Co-Founder

Technical head of R&D 3D Plasma Tech - 6+ Years - PLM / Medical Modelling / Additive Manufacturing / FEA
Developed patient specific knee implants through Reverse Engineering & 3D Printing.
Bachelor’s degree in Mechanical Engineering & Post Graduate Diploma in Product Design & Development

gokul@tavisharobotics.com
+91-9600584961

TEAM TAVISHA

Mr. Dhatchina Moorthy

Accounts Management

9+ years of Experience in business accounts management & Company formation

Mr. Manimaran

Website development & Maintenance

8+ years of experience in IT & Web design

Mr. Dhileepan & his Design Team

from Dutam Engineering Services

7+ years of experience in industrial product design & detailing

Mr. Manikanda Prabhu

from Metro Composites

5+ years of experience in industrial product design & detailing

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Achievements

Winners of Innovation Voucher Program – A

Winners of Startup India Seed Funding Scheme (SISFS)

Winners of NidhiEIR

Intellectual Properties

1. Passive modular exoskeleton for load carrying
2. Passive load carrying unit for back loads

(3rd patent is in the Internal Validation stage)

Investment Expectation

Minimum Investment Requirement

Rs.2,00,00,000 for **24** months span

We are happy to explain our Financial Projection in person

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Thank You…
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