

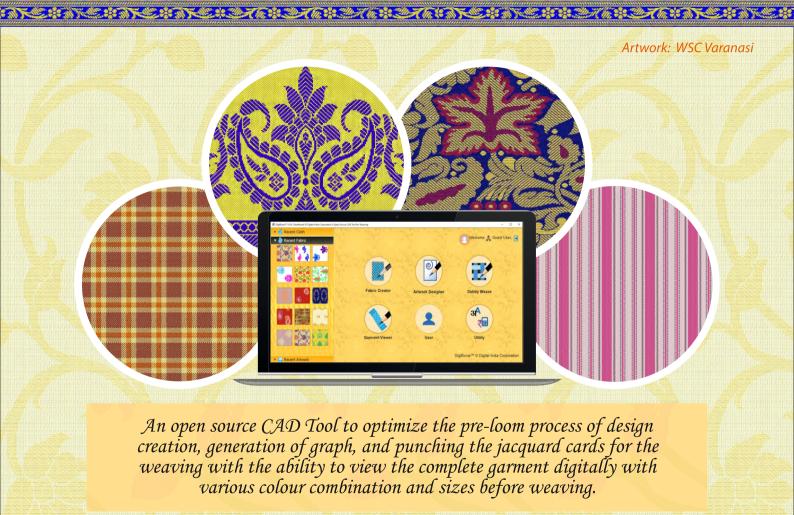


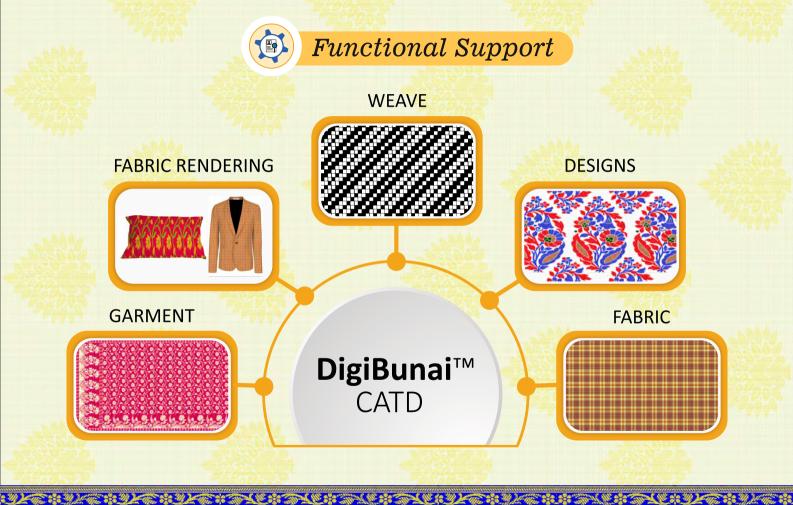


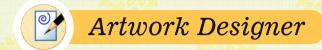
# **DigiBunai™ CATD**

An Open Source CAD Software for Textile Designing









- **Direct** drawing of motifs on customized graphs.
- > Automatic conclude the graph size with density parameters.
- > Automatic color reduction & color replacing.
- > Design mirroring & repeats.
- > Color filled design to sketch transformation.
- > Provision to fill weave patterns in designs.
- > Area & color based weave filling in Artwork.
- > Provision to create IKAT effect on designs.
- Auto Detect & Elimination of Yarn floats.
- **Function to produce Numeric form of Graph Designs.**
- > Support to Manual/Piano/Electronic card punching's.
- > Actual size of design printing.



Design Creation



IKAT Visuals

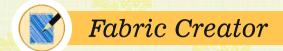
·沙麦尔特·沙龙尔特·沙麦尔特·沙麦尔尔太多特尔太多特尔太多特尔太多特尔大多特尔大多特尔太多特尔大多特尔



Edit on Graph with Weave



Repeat Visuals



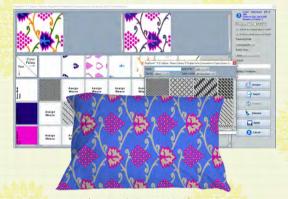
· 不是中海外生物不是中国外生物及不生物不够的一种中的不够的一种中的人类的。

·沙麦尔特·沙龙尔特·沙麦尔特·沙麦尔尔太多特尔太多特尔太多特尔太多大尔特·沙龙尔特·特尔太多特尔太多特尔大多特尔

- > Facility to fill/change weave patterns in Designs.
- > Graph corrections to finalize the motif with filled weave.
- > Support Extra Warp or Extra Weft weavings.
- > Provision to change the yarn density.
- > Provision for Yarn sequencing.
- > Options to visualize the Front & Back side of the fabric.
- > Auto calculate Bill of Material.
- > Fabric rendering on 2D objects.
- > Provision to customize the graph size of Design.
- > Facility to export the Fabric & construction details.
- > Support for Electronic Jacquards (BMP).



Artwork to Fabric Transformation



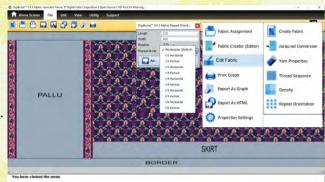
Fabric Rendering on 2D Objects



· 不是中海外生物不是中国外生物及不生物不够的一种中的不够的一种中的人类的。

- > Play area for the Designers to predict the Garment before Weaving.
- > Predefined & customized layouts of garments.
- > Provision to set the component repeats.
- > Repeat mode settings for designs on each layout component.
- > Option to change yarn colors & density.
- > Facility to Save, Export & Print the Layout.
- > Provision to export Technical Sheet of Layout.

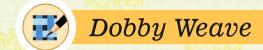




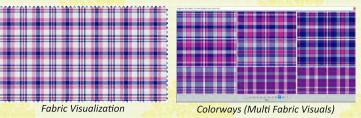
Design & Fabric Edit

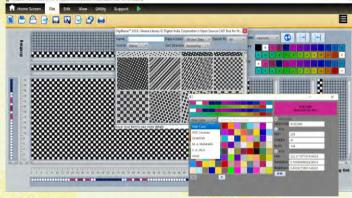


Created Layout



- > Facility to create Weave & save in library.
- Auto generating Drafting, Peg Plan, Treadling & Tie-up.
- > Weave repeat visualization.
- > Library of 545 weave patterns.
- > Provision to create Double layer fabric.
- ➤ Multi & Complex Weave Generator.
- > Facility to create Extra Warp patterns.
- > Yarn sequencing.
- > Front & Rear side fabric visualization.
- Colorways function to visualize fabric with various yarn color combinations.





Weave Creation with Yarns Editing



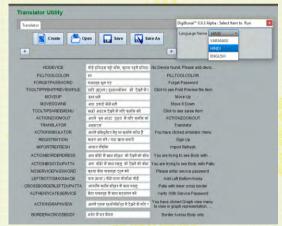
Yarn Color Palette



#### User Support

· 不是中海外生物不是中国外生物及不生物不够的一种中的不够的一种中的人类的。

- Facility to create color catalogue (Digitized popular Silk yarn color shades of Varanasi).
- Multilingual Support (Customizable language framework).
- > Seamless integration of third-party design tool.
- > Secure synchronization of creations with central server.
- > Provision to Import/Export the data.



Multilingual Framework



Weave Library



Design & Fabric Library

ŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧĠĬĔŧĠĬĔŧĠĬĔŧĠĬĔŧŸĔĠŧŸĔĠŧŶĔĠŧŸĔŧŸĔĠŧŶĔĠŧŶĔĠŧŶĔĠŧ



**Garment Library** 



## Support & Requirement

· 不是中海外生物不是中国外生物及不生物不够的一种中的不够的一种中的人类的。

- > Download the DigiBunai™ -> https://digibunai.dic.gov.in/index.php/download
- > User Manual → https://digibunai.dic.gov.in/manual/productmanual.pdf
- > Training Material -> https://www.youtube.com/results?search\_query=DigiBunai
- > Open source repository (GitLab) → https://gitlab.com/dic-tddd/digibunai



23		
	https://digibu	unai.dic.gov.in/

Requirements	
Operating system	Windows 7, Windows 8 and Windows 10
CPU	i3 or above
RAM	4 GB or above
Environment	Java (JRE 1.7.0.79)
Database	MySQL 5.6 or above

Supported Formats		
Artwork	jpg, png, bmp	
Weave	wif, html, png, bmp	
Graph	png, bmp	
Fabric	html, png, bmp	
Garment	html, png, bmp	
Color Catalogue	xls, xlsx, csv	

## Sketch to Fabric Transformation in DigiBunai



ŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧĠĬĔŧĠĬĔŧĠĬĔŧĠĬĔŧŸĔĠŧŸĔĠŧŶĔĠŧŸĔŧŸĔĠŧŶĔĠŧŶĔĠŧŶĔĠŧ

### Digital Fabric Vs Real Fabric



ŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧŸĔĠŧĠĬĔŧĠĬĔŧĠĬĔŧĠĬĔŧŸĔĠŧŸĔĠŧŶĔĠŧŸĔŧŸĔĠŧŶĔĠŧŶĔĠŧŶĔĠŧ

DigiBunai™ Fabric Simulation



#### **Registered Office**

4th Floor, Samruddhi Venture Park, Central MIDC Road #2, Andheri (East), Mumbai Ph. +91-22-2831-2930/31

#### **Research & Development Office**

Electronics Niketan Annexe, 6 CGO Complex Lodhi Road, New Delhi-110003 Ph. +91-11-24360199 / 24301756