One Code for All Indian Languages

Our Journey so far... Dreamchip Electronics Private Limited | November 2022

Challenge	There are 22 languages in India spoken by ~140 crore people. In the digital age, knowledge sharing for education, telecom, defence, banking, manufacturing, research and administration is a major challenge.
Solution requires	• "One Code for all Indian Languages" leveraging the similarity in the "Varnamala" that forms the foundation for words and sentences in all the Indian languages. • Affordable Smart Information Devices (**SID**) that support the above code. • A System-on-Chip (**SoC**) design for building the above SIDs
Imagine	• National anthem, "Jana Gana Mana..." coded <u>Once</u> for all Indian languages and rendered in any language! • Children having access to learning material in their language and on their SID.
Dreamchip Siddhi SID	• **SANSKRITI** - An efficient code specification for all Indian languages developed by Dreamchip & published by SCCI. • **Siddhi Digital School Bag** - An SID designed and developed for the Indian Child • **SiddhiLite** – A 32-bit synthetic processor and SoC with support for SANSKRITI realized on a low-cost FPGA
Technology	Dreamchip used SANKHYA Teraptor SPDP (Synthetic Processor Design Platform) an advanced Indian technology for developing **Siddhi SoC.**
Road Ahead	• Add script (Lipi) support for all Indian languages • Integrate NLP and Machine Translation for Bharata Bala Siksha • Add **Upamaedha (SOIL)** voice input and output support • Scale to meet demand across India

Siddhi DSB Telugu
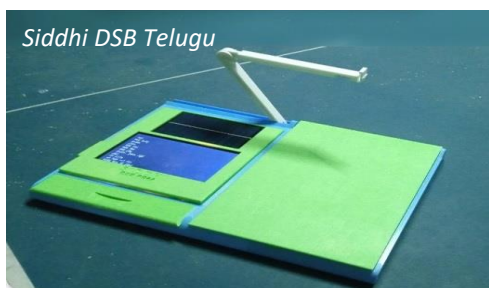
Contact:
Murali Bulusu
Dreamchip Electronics Private Limited
#1o&11, Hill2, Rishikonda IT Park,
Visakhapatnam 530 045. India.
Mobile: +91 94405 90248
Email: muralib@sankhya.com
CIN: U72900TN2012PTC086722

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With
Siddhi

#AmritKaal