

ICT and Courts

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Judge High Court of Kerala

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- Technology and impact
 - Scientific and technological revolution between 1940- 70
 - ICT revolution late 1975
 - Computer
 - mathematical formula
 - Cognitive computing and AI
 - Binary choice between
Accept and live with it
or reject
 - Indispensable choice
 - Harness System with technological
revolution
 - Shape the revolution in a manner that
improves the state of affairs

Disruptive technology

- Disruptive innovation
- Technology creating new platform and value
- Personal computer displaced typewriter
- Email transformed communication
- Social networking replaced traditional social relations
- Tipping points expected in future
- Hyper loop
- Li fi

Applications

- Replaced tax consultants , filing tax returns through online
- Uber , Airbnb
- Health related apps
- ODR
- ebay dispute resolution centre
- Sqaure trade

Applications

- Confession app
- Flipboard for news and personalized magazine pulling news and content from different sources
- Ushahidi crowd sourcing and social response app collecting data to get real time response
can be used for eliciting response in times of election ,disaster etc

Applications

- Legal Analytics for District Court Bankruptcy Appeals is Now Available
- Product by Lexmachina ,lexisnexis product analysing judges and courts

Applications

- Meet '**Ross**' legal Robot
- Ross has joined the ranks of Law firm Baker Hostetler which employs 900 lawyer
- Ross is among 50 human lawyers in its bankruptcy practice.
- The legal robot is accessed via computer and billed as a subscription service

Fourth Revolution

- Book by Klaus Schwab

founder of World Economic Forum

Out lines key technologies driving this revolution

Discusses major impacts on governments ,business , civil society etc

Offers idea that can shape future of this world

Table: Tipping Points Expected to Occur by 2025

	Rectang %
10% of people wearing clothes connected to the internet	91.2
90% of people having unlimited and free (advertising-supported) storage	91.0
1 trillion sensors connected to the internet	89.2
The first robotic pharmacist in the US	86.5
10% of reading glasses connected to the internet	85.5
80% of people with a digital presence on the internet	84.4
The first 3D-printed car in production	84.1
The first government to replace its census with big-data sources	82.9
The first implantable mobile phone available commercially	81.7
5% of consumer products printed in 3D	81.1
90% of the population using smartphones	80.7
90% of the population with regular access to the internet	78.8
Driverless cars equalling 10% of all cars on US roads	78.2
The first transplant of a 3D-printed liver	76.4
30% of corporate audits performed by AI	75.4
Tax collected for the first time by a government via a blockchain	73.1
Over 50% of internet traffic to homes for appliances and devices	69.9
Globally more trips/journeys via car sharing than in private cars	67.2
The first city with more than 50,000 people and no traffic lights	63.7
10% of global gross domestic product stored on blockchain technology	57.9
The first AI machine on a corporate board of directors	45.2

Source: Survey

Preparing for future in the legal practice

- Use of technology in existing system
- Electronic case management to track and search
- procedure
- Court room technology E- filing , web based- data base
- Service of summons

Preparing for future in Legal practice 2

- Artificial intelligence -substituting human intelligence- machine expertise
- Cognitive computing, can complete task like human
- Potential impact on the legal profession
- Conducting legal research
- Capable to predict outcome of litigation
- Clients/lawyers would be in a position to assess possible outcome of litigation

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- In 2014 Chicago Kent Law College professor Daniel and his colleague created an algorithm to predict 7700 rulings from 1953 to 2013
 - Result 70% accuracy
 - Promoting compliance by identifying internal matters of company
 - Performing due diligence
 - Legal document , AI can suggest falls back or alternative contract provision

Expectations of the people in the era of ICT

- ICT backed with globalisation transformed people
- From end to means to end
- Eg; telecommunication
- Automotive
- Values : efficiency , effectiveness and utility
- Looking up on institutions/industries / organizations as service provider

Access to justice

- Defining Access to justice for a framework with ICT
- Creating legal framework
- Keeping in mind obstacles like Institutional structure , poverty etc
- Relationship between Law and Technology
- Law`s objective and technology` objective
- Necessary to legitimise technology

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- The administration of electronic justice must be accessible.
 - It must be easy to litigants to take matters to court
 - ICT structure capable to reduce legal costs
 - Architecture must be simple so as to make parties to understand the procedure
 - Quality of justice should not suffer
 - Fair trial must be ensured
 - Legal aid

The way forward

- Suggestions in fourth revolution p106
- Contextual {mind} how we understand and apply our knowledge
- Emotional {heart} how we process and integrate our thoughts and feelings and relate to ourselves and one to another
- Inspired { the soul} how we use a sense of individual and shared purpose, trust , and other virtues to effect change and act towards the common good
- Physical { the body} how we cultivate our health to apply energy required for transformation.

How does Technology enable the court to modernise

- Text creations
- Storage
- Retrieval
- Improved access to courts
- Recording court proceedings
- Case management

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- E filing and digital management of files
 - Networked with hierarchy of courts
 - E court fee
 - Digital signature
 - Docket management

movement of the file can be easily tracked

theft of file can be prevented – RFID TAGS , Radio frequency identification

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- Video conferencing

For criminal courts

dispensing presence of under trial prisoners

- For evidence in criminal and civil cases
- For mediation and conciliation

- Annotation and witness monitor

annotation monitors allow a witness to explain where crucial event occurred on a particular piece of evidence, witness can view exhibits in the monitor

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- Recoding evidence
 - Voice dictation like dragon, Voice writings, Dictaphones etc
 - Management of Roll call – developing software
 - Management of Diary postings – linking with lawyers

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- Bio metric identification
 - Linking Aadhar with case files
 - Identity of accused can be verified
 - For use in Bail matters
 - For imposing conditions in bail
 - For verifying in number of cases in which a person is involved

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- Use of bio metric contd..
 - For awarding compensation under section 350 of Criminal procedure code
 - For insolvency cases
 - Plea of no means
 - For address verification

Thank you