Access to justice ICT and Courts

Justice A.Muhamed Mustaque Judge High Court of Kerala

- 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

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

- 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 in times of election disaster

can be used for eliciting response in times of election, disaster etc

- Legal Analytics for District Court Bankruptcy Appeals is Now Available
- Product by

Lexmachina ,lexisnexis product analysing judges and courts

- 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	o Occur I	oy 2025
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	%
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 Al	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 intelligencemachine 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

- 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

- 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

System design for Public Law remedy

- Rule of law
- Desirable relationship People- Law- Government
- Legal redressal through public authority
- Judicial redressal





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

- 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

- 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

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

- 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

- Use of bio metric contd..
- For awarding compensation under section 350 0f Criminal procedure code
- For insolvency cases
- Plea of no means
- For address verification

https://youtu.be/FX98I2rAy3o Chinese courtroom uses virtual reality to recreate crime scene



https://youtu.be/nB-yIshPMaI

TheMcGlothlin Courtroom: Court Reporter Station (HD1080p)

https://youtu.be/ZAkkTtsPKOA

How to Write on the Steno Machine Court Reporting and Captioning at Home

